

EPA Reg. Jacket 83100-27 vol 1

Material to be added to an e-Jacket/Jacket

Reg. # 83100-27 Decision # 439801

Description: initial registration

1. Placement within the e-Jacket/jacket:

- ☒ Default: (chronological, top = newest)
☐ File Location: (eg. "before page 45 in .pdf")

2. ☒ Send to Data Extraction contractors this material:


- ☒ Newly stamped accepted label
☐ Notification
☒ New CSF
☐ Other: _____

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: Tom Harris
Phone: 308-9423

Division: RD
Date: 4/5/11



reg notices: methomyl 83100-27, 83100-28 

t
Thomas Harris o Frank Sobotka
:

04/05/2011 05:11 PM

Dr. Sobotka,

Attached please find the registration notice and stamped labels for two Rotam methomyl end-use products. Thanks for your assistance in providing information as needed and revising the labels in a timely manner. I'll send the reviews in a separate email tomorrow; I'm still waiting for a copy of one review.

83100-27



083100-0027.20110405.reg notice stamped label.ac.ocr.pdf

83100-28



083100-0028.20110405.reg notice stamped label.ac.ocr.pdf

Tom Harris
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visit <http://www.epa.gov/pesticides>



**U.S. ENVIRONMENTAL PROTECTION
AGENCY**

**Office of Pesticide Programs
Registration Division (7505C)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460**

EPA Reg.
Number:

83100-27

Date of Issuance:

April 5, 2011

Date of Expiration:

Term of Issuance:

conditional

Name of Pesticide Product:

Rotam Methomyl 29LV
Insecticide

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Rotam Agrochemical Company, Ltd.
c/o IPM Resources LLC (agent)
4032 Crockers Lake Blvd., Suite 818
Sarasota, FL 34238

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Add the phrase "EPA Registration Number 83100-27".
3. Per the indicated EPA Guidelines, submit the following within the months indicated as measured from the effective date of this registration.
 - a. One year storage stability (830.6317) (measurements at 0, 3, 6, 9, and 12 months).
Submit in both electronic and hard copy format. Due within 18 months.
 - b. Corrosion characteristics (830.6320) (measurements at 0, 3, 6, 9, and 12 months).
Submit in both electronic and hard copy format. Due within 18 months.
4. Submit two (2) copies of the final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A copy of the label stamped "accepted with comments" is enclosed for your records. If you have any questions, please contact Tom Harris at (703) 308-9423 or harris.thomas@epa.gov.
enclosure

Signature of Approving Official:

Thomas C. Harris
Insecticide Rodenticide Branch
Registration Division (7505P)

Date:

APR - 5 2011

[Front Container Label – Optional if Booklet is used as front container label]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP 1A INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
--------------------------	------------------

Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
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<u>Other Ingredients</u>	71%
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TOTAL	100%
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Contains Methanol

ACCEPTED
With COMMENTS
In EPA Letter Dated:

APR - 5 2011

Under the Federal Insecticide, Fungicide
and Rodenticide Act, As amended, for the
pesticide Registered under EPA Reg. No:

83100-27

[Placeholder to identify Container type]

EPA Reg. No. 83100 - 27

EPA Est. No.: 5905-GA-01

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional Precautionary Statements on inside booklet and back panel of container and Directions for Use on inside booklet.

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons
TBA

[Booklet Cover]

PULL HERE TO OPEN ►

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Net Contents
Gallons
TBA

Refer to inside for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, Engineering Controls Statements, Environmental Hazards and Directions for Use

FIRST AID
(N-Methyl Carbamate insecticide)

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact the National Poison Control Center 24-hr Emergency Hotline at: 1-800-222-1222.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS
AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Restricted Use Pesticide due to toxicity categories. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Contains Methanol. Methanol may cause blindness. Causes irreversible eye damage. May be fatal if swallowed or if inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Do not breathe spray mist. Avoid contact with skin.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as natural rubber or other materials in EPA category C.
- Socks and chemical resistant footwear.
- Protective eyewear.
- Chemical resistant apron.
- Respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENTS

Human flaggers must be in enclosed cabs.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must not assist in the mixing and loading operations.

USER SAFETY RECOMMENDATIONS

USERS SHOULD:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.
- Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean highwater mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation. The product shows potential explosive properties when heated to elevated temperatures.

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DIRECTIONS FOR USE

Restricted Use Pesticide

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). REI Summary: REI peaches = 4 day; REI apple, cotton, grapefruit, lemon, nectarine, orange, tangelo, tangerine = 3 day; all other WPS uses = 48 hour REI.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.

- Chemical-resistant gloves, such as barrier laminate or butyl rubber.

- Shoes plus socks.

- Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Do not formulate this product into other end-use products without written permission from Rotam.

ROTAM METHOMYL 29LV insecticide should be used only in accordance with directions for use on this label or in separate Rotam supplemental labeling. Rotam will not be responsible for use of the product in a manner not specified by Rotam in the product's labeling and User assumes all risk for such use.

ROTAM METHOMYL 29LV is a water soluble liquid that is applied by foliar application to control many important insect pests. ROTAM METHOMYL 29LV is mixed with water for application.

Do not apply thru Drip Chemigation unless accompanied by Rotam Supplemental Labeling.

Pilots must not assist in the mixing and loading operations.

Do not apply by ground equipment within 25 feet, or by air within 100 feet of lakes, reservoirs, rivers, estuaries, commercial fish ponds and natural, permanent streams, marshes or natural, permanent ponds. Increase the buffer zone to 450 feet from the above aquatic areas when ultra low volume application is made.

Hand-held equipment is prohibited for applications to crops. This product must be applied to crops only with mechanical ground, overhead sprinkler chemigation or aerial application equipment.

Use only in commercial and farm plantings. Not for use in home plantings. Not for use during any period after a commercial crop site is opened for public entry as a "U-Pick", "Pick Your Own" or similar operation; in no case shall preharvest applications be made after first public entry. The restricted entry interval and preharvest interval for the crop stated elsewhere on this label must be followed.

RESISTANCE MANAGEMENT

For resistance management, ROTAM METHOMYL 29LV insecticide is a group 1A insecticide. Repeated and exclusive use of ROTAM METHOMYL 29LV or other group 1A insecticides may lead to the build-up of resistant strains of insects in some crops. Not all members of this group have been shown to be cross-resistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different sub-groups within this group may be an acceptable part of an integrated pest management program.

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below the economic threshold. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

INTEGRATED PEST MANAGEMENT

This product should be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult

your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

SCOUTING

Monitor insect populations to determine whether or not there is a need for application of ROTAM METHOMYL 29LV based on locally determined economic thresholds. More than one treatment of ROTAM METHOMYL 29LV may be required to control a population of pests.

BENEFICIAL ARTHROPODS

ROTAM METHOMYL 29LV at rates of 2/5 to 3/4 pint per acre helps conserve certain beneficials, including big-eyed bugs, damsel bugs, flower bugs and spiders in cotton and soybeans. While these beneficials cannot be relied upon to control pests, they are of potential value and should be monitored along with pests in pest management programs on these crops.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying ROTAM METHOMYL 29LV.

Fill spray tank 1/4 to 1/2 full of water. Add ROTAM METHOMYL 29LV directly to spray tank. Mix thoroughly. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

Compatibility — Since formulations may be changed and new ones introduced, in this situation users can premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.) before applying the product. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use ROTAM METHOMYL 29LV with Bordeaux mixture (copper sulfate and hydrated lime), Du Ter triphenyltin hydroxide, lime sulfur, Rayplex iron nor in highly alkaline solutions. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

Tank Mix Sequence — Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

1. Water soluble bags.
2. Water dispersible granules.
3. Wettable powders.
4. Water based suspension concentrates.
5. ROTAM METHOMYL 29LV and other water soluble concentrates.
6. Oil based suspension concentrates.
7. Emulsifiable concentrates.
8. Adjuvants, surfactants, oils, soluble fertilizers, and drift retardants. Follow local practice and manufacturer's recommendation.

APPLICATION

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Follow-up treatments of ROTAM METHOMYL 29LV should be applied, as needed, to keep pest populations within threshold limits. On most crops, ROTAM METHOMYL 29LV should be applied at 5 to 7 day intervals to maintain control. Refer to crop specific directions for use in the crop tables for more specific information on treatment intervals.

Use sufficient water to obtain thorough, uniform coverage. Since ROTAM METHOMYL 29LV is a fast acting contact insecticide, best results follow direct spraying of the target insect.

For aerial, use a minimum of 2 gals. per acre (gpa) except 10 gpa for peaches and nectarines; 15 gpa for oranges, lemons, grapefruit, tangelos and tangerines.

ROTAM METHOMYL 29LV is recommended for use as a low volume aerial spray 0.53 gpa (2L) for cotton* and soybeans* and 1 gpa for the crops listed below providing the following conditions are met:

- equipment is adjusted to distribute spray uniformly over the spray swath,
- wind conditions and other factors such as temperature and humidity are such
- that the spray is delivered to the target area,
- local regulations do not prohibit low-volume aerial sprays,
- use rates are applied as directed on the package label or supplemental labeling for the following crops:

Alfalfa	Celery	Peas (succulent)
Anise	Collards	Peppermint
Asparagus	Corn	Peppers
Barley	Cotton	Potato
Beans	Cucumber	Rye
Broccoli	Lettuce	Soybean
Brussels sprouts	Melons	Spinach
Cabbage	Mint	Sugar beet
Carrot	Oats	Summer Squash
Cauliflower	Peanuts	Wheat

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Thereafter, use the lowest rate possible to maintain control.

* Not Registered for aerial application in a diluted volume of less than 1 gal in CA.

SPRAY TANK CLEANOUT

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

CHEMIGATION

Instructions for the Use of ROTAM METHOMYL 29LV on Alfalfa, Barley, Oats, Green and Dry Bulb Onions, Potatoes, Rye, Sugar Beets and Wheat Using Overhead Sprinkler Chemigation

Do not apply thru Drip Chemigation unless accompanied by Rotam Supplemental Labeling.

Chemigation: Overhead sprinkler chemigation is allowed for use in alfalfa, barley, succulent and dry beans, oats, onions, succulent peas, potatoes, rye, sugar beets, sweet corn and wheat. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in supplemental labeling.

Overhead chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical chemigation applications are more dilute than ground or aerial applications. For best results, it is recommended to keep the concentration of ROTAM METHOMYL 29LV as high as possible in the application. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre.

ROTAM METHOMYL 29LV is most active as a contact insecticide, although it does also have activity via ingestion of treated plants. For best results, applications of ROTAM METHOMYL 29LV should take place when the insects are active and most likely to come into direct contact with the application.

Types of Irrigation Systems:

ROTAM METHOMYL 29LV may be applied through overhead sprinkler irrigation systems for control of various pests. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens. Do not apply ROTAM METHOMYL 29LV through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN, or this product label.

General Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of ROTAM METHOMYL 29LV in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of ROTAM METHOMYL 29LV into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of ROTAM METHOMYL 29LV. Once in solution, no further agitation is required. Injection solution should not be stored overnight. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic (pH5-7).

Injection Into Chemigation Systems

Inject the proper amount of the ROTAM METHOMYL 29LV solution into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

Uniform Water Distribution

The irrigation system used for application of ROTAM METHOMYL 29LV must provide for uniform distribution of ROTAM METHOMYL 29LV treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

Equipment calibration

Calibrate the irrigation system and injector before applying ROTAM METHOMYL 29LV. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for cleaners and repairers of application equipment when making adjustments or repairs on the chemigation system when ROTAM METHOMYL 29LV is in the irrigation water.

Required System Safety Devices

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Posting of Areas to be Treated

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes, or any other public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in ENGLISH. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color, which sharply contrasts with their immediate background. At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol shall be the words "PESTICIDE IN IRRIGATED WATER".

Posting for chemigation does not replace other posting and reentry requirements for farm worker safety.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system. End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

Nozzles in the immediate area of control panels, chemical supply tanks, wellheads and system safety devices must be plugged to prevent contamination of these areas.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity**, and **Temperature Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types and the lowest drift.
- **Boom Length** - For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.
- **Application Height** - Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- **Swath Adjustment** - When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downward edges of the fields, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. These sprayers are not suitable for applying herbicides. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift..

Adjust deflectors and aiming devices so that spray is only directed into the canopy.

Block off upward pointed nozzles when there is no overhanging canopy.

Use only enough air volume to penetrate the canopy and provide good coverage.

Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Apple Ground application only	Apple Aphid Rosy Apple Aphid Tufted Apple Budmoth Green Fruitworm Tarnished Plant Bug	1 1/2 - 3 *	14	72 hrs
	Codling Moth (10-12 day spray intervals)			
	Leafrollers (Fruit-tree, Obliquebanded, Redbanded, Variegated) Lesser Appleworm White Apple Leafhopper Tentiform Leafminer Cutworm	3 *		
	Do not use on Early Macintosh & Wealthy varieties Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop; minimum interval between treatments is 7 days. * Apply in a minimum of 50 gallons of water per acre.			
Asparagus	Beet Armyworm Western Yellowstriped Armyworm Asparagus Beetle Spotted Asparagus Beetle White Cutworm Redbacked Cutworm	1 1/2 - 3	1	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Avocado	Western Avocado Leafroller Omnivorous Looper	1 1/2 - 3	1	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Barley	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when the aphid population is low (<10 adults per stem).				
Beans (Succulent) Including: Kidney Lima Mung Navy Pinto Snap Wax Broad Fava Asparagus Blackeyed peas Cowpeas Chick peas Garbanzo beans Sweet lupine White sweet lupine White lupine Grain lupine	Leafhopper Mexican Bean Beetle	3/4 – 3	Succulent Beans - 3/4 - 1 1/2 pts. -- 1, over 1 1/2 pts. -- 3; 3 - Vines 7 - Hay	48 hrs
	Fall Armyworm Variegated Cutworm	1 1/2		
	Beet Armyworm Corn Earworm Saltmarsh Caterpillar Yellowstriped Armyworm Western Yellowstriped Armyworm Lygus Bugs Thrips Aphids Loopers*	1 1/2 - 3		
	European Corn Borer (Ovicide & Larvicide)-- Initiate when moth flights first appear and-continue preventive treatments at 3-4 day intervals To control eggs and larvae			
	Spotted Cucumber Beetle	3/4 – 1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Do not use for Loopers in AL & GA.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Beans (Dry) (Same as Succulent Beans)	(Same as Succulent Beans)	(Same as Succulent Beans)	14 - Dry Beans * 14 - Vines * 14 - Hay *	48 hrs
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV/acre /crop. Do not make more than 10 applications per crop. Do not use for Loopers in AL & GA. *Do not apply within 14 days of cutting.			
Beets (Table)	Imported Cabbageworm	3/4 – 3	0 - roots 10 -tops	48 hrs
	Beet Armyworm Cabbage Looper Diamondback Moth	1 1/2 - 3		
	Cucumber Beetle Variegated Cutworm	1 1/2		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Bermudagrass pasture	Fall Armyworm Armyworm Striped Grass Looper	3/4 - 3	7 - Forage * 3 - Dehydrated Hay **	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * Do not apply within 7 days of feeding forage or allowing livestock to graze. ** Do not apply within 3 days of cutting for hay.			
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1 1/2	3	48 hrs
	Cranberry Fruitworm* Cherry Fruitworm*	1 1/2 – 3		
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	3		
	Blueberry Maggot	3/4–1 1/2		
	Do not apply during bloom. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * For ground use only.			
Broccoli	Loopers Diamondback Moth	1 1/2 - 3**	3	48 hrs
	Imported Cabbageworm	3/4 - 3**		
	Do not apply more than 21 pints of ROTAM METHOMYL29LV/acre/crop Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Brussels Sprouts	Loopers Imported Cabbageworm Diamondback Moth	1 1/2 – 3 **	3	48 hrs
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Cabbage	Loopers * Diamondback Moth Fall Armyworm	1 1/2 - 3 **	1	48 hrs
	Imported Cabbageworm	3/4 - 3 **		
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. * Do not use for Loopers in AL & GA. ** Add a wetting agent to improve coverage.			
Carrot	Beet Armyworm Armyworms Aster Leafhopper	1 1/2 - 3	1	48 hrs
	Variegated Cutworm	3/4 – 1 1/2		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Cauliflower	Imported Cabbageworm	3/4 – 3 **	3	48 hrs
	Loopers Diamondback Moth	1 1/2 – 3 **		
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Celery	Beet Armyworm Aster Leafhopper	1 1/2 – 3	7	48 hrs
	Loopers	3		
	Variegated Cutworm	1 1/2		
	Armyworms	3/4 - 3		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Chicory	Beet Armyworm Variegated Cutworm Leafhoppers	1 1/2 - 3	80	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Chinese Cabbage	Loopers Beet Armyworm	1 1/2 - 3*	10	48 hrs
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Minimum of 25 gallons water per acre by ground or 5 gallons by air.			
Collards (Fresh market only)	Diamondback Moth Variegated Cutworm	1 1/2	10	48 hrs
	Imported Cabbageworm Beet Armyworm Loopers*	1 1/2 - 3		
	Do not apply when temp. is less than 50° F. Do not apply when crop is less than 10" tall. Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Loopers in AL & GA.			
Corn (Field, Popcorn & Seed)	Earworm – (Ovicide/Larvicide) Armyworm Fall Armyworm European Corn Borer Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2	21 - Ears 3 - Forage* 21 - Stover*	48 hrs
	Variegated Cutworm, Beet Armyworm	1 1/2		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. *Corn forage is green actively growing plants that are harvested with the ears intact. The plants can be fed directly to animals or used to make silage. Corn stover are the parts of the plant that remain after removal of the grain at full plant maturity. These remaining stalks and leaves can be fed as roughage to animals.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Corn (Sweet)	Earworm--Whorl as needed	1 – 1 1/2	0 -Ears 3 - Forage 21 - Stover	48 hrs
	Fall Armyworm Armyworm Earworm, (Ovicide/Larvicide) European Corn Borer -Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2		
	Variegated Cutworm Beet Armyworm	1 1/2		
	Certain hybrid varieties of sweet corn are susceptible to methomyl injury. Treat a small area to determine crop safety before full scale spraying. Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 28 applications per crop; minimum interval between treatments is 1 day.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Cotton – All US	Ovicide/Larvicide - Bollworm Tobacco Budworm (Initiate schedule when significant numbers of eggs are present Continue at 3 to 5-day intervals while eggs are present and larval control is adequate. If significant larvae survive, use higher rates below.) Lygus Bugs/Plant Bugs (adults and nymphs) Start treatment on low level population for suppression.	2/5 - 3/4 (see Insect Predator Section)	15	72 hrs
	Cotton Leafworm	3/4 – 1 1/2		
	Cotton Fleahopper (as needed)	2/5 – 3/4		
	Aphids, Thrips	3/4		
East of Rockies only	(Early Season) Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adults and nymphs) Use as occasional spray in regular schedule but not more often than every 10 days.	1 1/2		
	(Late Season) Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adult and nymphs) Up to 3 applications at 3-5 day intervals after desired boll load set on plants.	1 1/2 – 2 1/4		
Texas	Cotton Aphid	3/4 – 2		
West of Rockies only	Larvicide for worms: Bollworm Fall Armyworm Tobacco Budworm Lygus Bugs Beet Armyworm	1 1/2 – 2 1/4		
	Cotton Leafperforator	1 – 2 1/4		
For applications West of the Rockies, make applications on 3-5 day intervals after				

desired boll load set on plants.

For all applications made to cotton in the United States:

Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.

Do not make more than 8 applications per crop.

Do not graze or feed.

Use may redden cotton. If excessive, stop or alternate with other insecticides.

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pt. -- 1 Over 1 1/2 pt.- 3	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications /crop.			
Eggplant	Green Peach Aphid	3/4 – 3	5	48 hrs
	Tomato Pinworm (Ground Application Only) Beet Armyworm Corn Earworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Endive, Escarole	Beet Armyworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Garlic	Beet Armyworm	1 1/2**	7	48 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. ** Add a wetting agent to improve coverage.			
Grapefruit CA, AZ & HI only	Thrips Fruitree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Horseradish (Ground application Only)	Aphids Thrips	1 1/2	65	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Leafy Green Vegetables: Beet (tops) Dandelions, Kale, Mustard Greens, Parsley, Swiss Chard, Turnip Greens	Beet Armyworm Cabbage Looper* Diamondback Moth Imported Cabbageworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Cabbage Loopers in AL & GA.			
Lemon CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Lentils	Western Yellowstriped Armyworm	1 1/2 - 3	21	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Lettuce (Head and Leaf varieties)	Alfalfa Looper	3/4 - 3	3/4-1 1/2 pt. -- 7 over 1 1/2 pts. -- 10	48 hrs
	Thrips	1 1/2 - 3		
	Aphids			
	Beet Armyworm Cabbage Looper Corn Earworm Aster Leafhopper			
	Variegated Cutworm	1 1/2		
	Lettuce (head varieties) Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. Lettuce (leaf varieties) Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 2 days.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Melons Including: Canteloupe Casaba Santa Claus melon Crenshaw melon Honeydew melon Honey balls Persian melon Golden Pershaw melon Mango melon Pineapple melon Snake melon Watermelon	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pts. -- 1 day over 1 1/2 pts. -- 3 days	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop.			
Mint (Peppermint, Spearmint)	Variegated Cutworm Alfalfa Looper	3	14	48 hrs
	Flea Beetles	2 1/4 - 3		
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Nectarine CA & AZ only	Thrips	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Oats	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			
Onions (Green & Dry Bulb)	Beet Armyworm	1 1/2 - 3**	7 - Green & Dry Bulb Onions	48 hrs
	Thrips* Variegated Cutworm Black Cutworm	3**		
	Onions, green Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 5 days. Onions, dry bulb Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum treatment interval between treatments is 5 days. *Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control thrips. Begin applications before thrips populations reach 3-5 thrips per plant. For best results, use the highest rate of ROTAM METHOMYL 29LV and a wetting agent. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. ** Add a wetting agent to improve coverage.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Oranges CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Fruittree Leafroller Beet Armyworm Citrus Cutworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Peaches	Catfacing Insects (Plant Bugs and Stink Bugs) - begin at petal fall and continue in cover sprays at 7 to 10-day intervals Oriental Fruit Moth* -begin at petal fall; use trapping devices and frequent field inspection to determine need for treatment. Continue treatment in cover sprays and alternate with residual- type insecticides registered for this use. Green Peach Aphid	3 pt (or 3/4 pt per 100 gal up to 400 gal per acre)	4	4 days
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. * Oriental Fruit Moth (Ground Application Only).			
Peanuts	Corn Earworm* Potato Leafhopper Fall Armyworm	3/4 – 3	21	48 hrs
	Beet Armyworm	1 1/4 - 3		
	Green Cloverworm Velvetbean Caterpillar Cabbage Looper Soybean Looper ** Thrips Granulate Cutworm	1 1/2 – 3		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not feed treated vines. * ROTAM METHOMYL 29LV has ovicidal and larvicidal control on corn earworm. **Soybean Looper is difficult to control. Do not apply to worms greater than 1/2" long. Use higher rate for severe infestations.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Pears Northeast only	Green Fruitworm Oblique banded Leafroller	1 1/2 - 3*	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Apply in a minimum of 50 gallons of water per acre.			
Peas (succulent) Including: Pigeon peas Chick peas Garbanzo beans Dwarf peas Garden peas Green peas English Peas Field peas Edible pod peas	Alfalfa Looper Cabbage Looper* Pea Aphid Beet Armyworm Saltmarsh Caterpillar Variegated Cutworm	1 1/2 - 3	1 - Peas 5 - Forage 14 - Hay	48 hrs
	Alfalfa Caterpillar Armyworm Green Cloverworm	3/4 - 3		
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop . Do not make more than 6 applications per crop; minimum interval between treatments is 3 days. * Do not use for Cabbage Loopers in AL & GA.			
	Pecans Southeast only	Aphids	1 1/2 - 3	
Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 7 applications per crop.				
Peppers Including: Bell Hot Pimentos Sweet	Loopers Beet Armyworm Green Peach Aphid Armyworm Fall Armyworm	1 1/2 - 3	3	48 hrs
	Variegated Cutworm	3/4 - 1 1/2		
	European Corn Borer	3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Pomegranates	Omnivorous Leafroller	3	14	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Potato	Tuberworm* Loopers Aphids Beet Armyworm Leafhoppers Fall Armyworm	1 1/2 – 3	6	48 hrs
	Variegated Cutworm Flea Beetles	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL2 9LV per acre per crop. Do not make more than 10 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Repeat applications of ROTAM METHOMYL 29LV on a 5-7 day schedule, or longer as needed, to control tuber worm populations. An application schedule of effective insecticides with different modes of action may be needed to keep foliar feeding larval populations as low as possible prior to harvest to reduce the risk of larval damage to the tubers. Failure to adequately control tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage.			
Rye	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).				

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Sorghum Including: Sudangrass (except Sweet Sorghum)	Sorghum Webworm	1 1/2*	14**	48 hrs
	Sorghum Midge --Apply when 50% bloom and 3-5 days later if needed. Fall Armyworm (Budworm) Beet Armyworm Corn Earworm Armyworm	3/4 – 1 1/2*		
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Minimum of 10 gallons per acre by ground or 2 gallons per acre by air. ** Do not apply within 14 days of feeding forage or cutting for hay.			
Soybeans	Green Cloverworm Velvetbean Caterpillar Mexican Bean Beetle Corn Earworm - Light to moderate Infestations	2/5 - 3/4 (see Insect Predator section)	14 - Soybeans 3 - Forage 12 - Hay	48 hrs
	Corn Earworm - Moderate to severe infestations	3/4 – 1 1/2		
	Soybean Aphid	1/2 – 1		
	Beet Armyworm Salt Marsh Caterpillar Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper - Light to moderate infestations	3/4 – 1		
	Silver Spotted Skipper - Moderate to severe infestations	1 – 1 1/2		
	Do not apply more than 4.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			
Spinach	Alfalfa Looper Cabbage Looper Beet Armyworm Fall Armyworm	1 1/2 - 3	7	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply when minimum daily temp. is 32° F, or lower. Do not apply to seedlings less than 3" diameter. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Sugar Beet	Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstripe Armyworm*	3/4 - 3	30 - Tops 21- Roots	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. *Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control beet armyworm, aphids and western yellowstriped armyworm. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.			
Summer Squash* Including: Crookneck squash Straightneck squash Scallop squash Vegetable marrow Spaghetti squash Hyotan Cucuzza Hechima Chinese okra Bitter melon Balsam pear Balsam apple Chinese Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pt. — 1 day over 1 1/2 pt.-- 3 days	48 hrs
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop. * Fruit of the Gourd (Cucurbitaceae) family that are consumed when immature, 100% of the fruit is edible cooked or raw, once picked cannot be stored, has a soft rind which is easily penetrated and if seeds were harvested they would not germinate			
Tangelo, Tangerine CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Tobacco (Except shade)	Flea Beetle Hornworm	3/4 – 1 1/2	5 - Flue cured 14 - Air or fire cured	48 hrs
	Loopers Aphids Tobacco Budworm Fall Armyworm	1 1/2		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.			

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Tomato (Including Tomatillos*)	Tomato Fruitworm Aphids Hornworm Loopers Beet Armyworm Southern Armyworm Pinworm Armyworm Fall Armyworm	1 1/2 - 3	1	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 16 applications per crop. * For tomatillos do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.			
Turf (For use on sod farms only)	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	3 (1.1 fl. ozs. per 1000 sq. ft.)		48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Do not graze or feed.			
Wheat	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Storage and Disposal Continued

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures.

Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Storage and Disposal Continued

All Refillable Containers: Refillable container. Refilling Container: Refill this container with ROTAM METHOMYL 29LV containing methomyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting.

Disposing of Container: Do not reuse this container for any other purpose other than refilling (see proceeding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not transport if container is damaged or leaking.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Rotam Agrochemical Company Limited or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Rotam Agrochemical Company Limited and Seller harmless for any claims relating to such factors.

Rotam Agrochemical Company Limited warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Rotam Agrochemical Company Limited, and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW ROTAM LTD MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law, Rotam Agrochemical Company Limited or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ROTAM AGROCHEMICAL COMPANY LIMITED AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ROTAM AGROCHEMICAL COMPANY LIMITED OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Rotam Agrochemical Company Limited and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Rotam Agrochemical Company Limited.

Manufactured by:
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Registered: [TBA]

[Back Page of Booklet - remains on the container when booklet is removed]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP

1A

INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
<u>Other Ingredients</u>	71%
TOTAL	100%
Contains Methanol	

[Placeholder to identify Container type]

EPA Reg. No. 83100 - 27

EPA Est. No.: 5905-GA-01

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Refer to inside label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, Engineering Controls Statements, Environmental Hazards and Directions For Use.

FIRST AID

(N-Methyl Carbamate insecticide)

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact the National Poison Control Center 24-hr Emergency Hotline at: 1-800-222-1222.

**HAZARDS TO HUMANS
AND DOMESTIC ANIMALS
KEEP OUT OF REACH OF CHILDREN
DANGER POISON**



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Restricted Use Pesticide due to toxicity categories. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Contains Methanol. Methanol may cause blindness. Causes irreversible eye damage. May be fatal if swallowed or if inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Do not breathe spray mist. Avoid contact with skin.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as natural rubber or other materials in EPA category C.
- Socks and chemical resistant footwear.
- Protective eyewear.
- Chemical resistant apron.
- Respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of

equipment washwater or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation. The product shows potential explosive properties when heated to elevated temperatures.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Storage and Disposal Continued

CONTAINER HANDLING:

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Storage and Disposal Continued

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers: Refillable container. Refilling Container: Refill this container with ROTAM METHOMYL 29LV containing methomyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see proceeding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not transport if container is damaged or leaking.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Registered: (TBA)

<p>Net Contents Gallons TBA</p>
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Reviews

chem

3/18/11

tax

2/28/11

chem addendum

3/18/11/4/5/11



reviews for methomyl 83100-27, 83100-28

Thomas Harris o Frank Sobotka
:

04/06/2011 06:11 PM

Dr. Sobotka,

Attached are the product chemistry and acute toxicology reviews for Rotam methomyl products 83100-27 and 83100-28 which were registered yesterday (4/5/2011). Please use these copies to replace any previous versions I had sent you (some minor administrative changes made on earlier version of a couple of reviews). Unless requested otherwise, I will not mail you paper copies of this material. This email (and yesterday's email with the stamped labels) will constitute the official delivery of this material.

Again, thank you for your prompt attention to any issues we brought up and to label revisions as they were requested.

83100-ET



83100-ET.product chemistry.20110318.no CBI.pdf



83100-ET.product chemistry.addendum.20110318.no CBI.pdf



83100-00027.acute tox review.20110228.pdf

83100-EI



083100-00028.prod chem.20110331.no CBI.image.pdf



083100-00028.prod chem addendum.20110331.no CBI.image.pdf



83100-00028.acute tox review.20110310.pdf

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DP BARCODE No.: D38805; FILE SYMBOL No.: 83100-ET(a); DECISION No.: 439801; PC Code(s): 090301; Action Code: R 310; FOOD Use: Yes

DATE OUT: March 18, 2011

FEE

SUBJECT: End Use Product Chemistry Review
Product Name: Rotam Methomyl 29% LV Insecticide

FROM: Shyam Mathur
Product Chemistry Team Leader
Technical Review Branch / Registration Division (7505P)

TO: Thomas Harris / John Hebert, PM 07
Insecticide-Rodenticide Branch / Registration Division (7505P)

Company Name: Rotam Agrochemical Co., Ltd
Formulation Type: Insecticide, Water Soluble Liquid (WSL)

S. Mathur
4/4/11
DT
4/5/11

INTRODUCTION

The product chemistry data on this end use product were reviewed previously (see PCR dated March 18, 2011, DP383465, MRID Nos. 482239-01 through 482239-03). The registrant submitted additional data on the guideline 830.1600 (description of materials used to produce the product) for the revised basic CSF (dated March 7, 2011) with MRID No. 484167-01. At same time the registrant also submitted additional data on the guideline 830.1600 (description of materials used to produce the product) with MRID No. 484166-01 corresponding to the revised alternate CSF (dated 3-16-11). TRB has been asked to evaluate the additional product chemistry data submitted.

SUMMARY OF FINDINGS:

1. Name of Active Ingredient(s): Methomyl (29.00%)
2. All the source materials for the active ingredients are derived from registered sources:
[] Yes; [X] No. The TGA (File Symbol XXXXXXXXXX) is being registered concurrently.
3. All inert ingredients have been screened by IIAB and found to be approved for the proposed labeled uses [X] Yes; [] No.
4. Confidential Statement of Formula(s):
[X] Basic - Dated: November 10, 2009; resubmitted (email on 03-10-11) – Dated: March 7, 2011
[X] Alternate (e-mail on 03-07-11) - Dated: March 7, 2011; resubmitted (e-mail 03-16-11)-Dated 03-16-11

Product ingredient source information may be entitled to confidential treatment

DP BARCODE No.: D38805; FILE SYMBOL No.: 83100-ET(a); DECISION No.: 439801; PC Code(s): 090301; Action Code: R 310; FOOD Use: Yes

Group A: Product Chemistry Data

TRB's determination of the acceptability of the data for the proposed product is listed in the tables below.

Guideline No.	Study Title		Data submitted		TRB's Assessment of Data	MRID Nos.
			Yes	No		
830.1550	Product Identity & Composition		X		A	482239-01
830.1600	Description of materials used to produce the product		X		A	484167-01 484166-01
830.1650	Description of formulation process		X		A	482239-01
830.1670	Discussion on the formation of impurities		X		A	482239-01
830.1700	Preliminary analysis		NA			
830.1750	Certified limits (158.350)	Standard certified limits	X		A	482239-01
		Proposed Limits				
		Justification for wider limits				
830.1800	Enforcement analytical method		X		A	482239-02

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver Request, I = In Progress, NA = Not Applicable

CONCLUSIONS:

The TRB has reviewed the CSF(s) and the additional product chemistry data corresponding to guideline 830.1600 for the proposed end use product and has concluded:

1. The proposed revised CSF for basic formulation (dated 03-07-11) & the revised CSF for alternate formulation (dated 03-16-11) are acceptable.
2. The additional data submitted corresponding to guideline 830.1600 (description of materials used to produce the product), are acceptable.
3. The registrant must change the "Inert ingredient" and replace it with "Other ingredient" under Ingredient Statement on the product label.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Office of Chemical Safety and Pollution
Prevention

February 28, 2011

MEMORANDUM

Subject:

Name of Pesticide Product:
EPA File Symbol:
DP Barcode:
Decision No.:
Action Code:
PC Codes:

ROTAM Methomyl 29LV Insecticide
83100-ET
D383467
439801
R310
090301 Methomyl

From:

Breann Hanson, Biologist
Technical Review Branch (TRB)
Registration Division (RD; 7505P)

To:

Thomas Harris, RM Team 07
Insecticide Branch
Registration Division (7505P)

Applicant:

ROTAM Agrochemical Company, Ltd.
c/o IPM Resources LLC (Agent)
4032 Crockers Lake Blvd., Suite 818
Sarasota, FL 34238

FORMULATION FROM LABEL:

Active Ingredients:

090301 Methomyl

CAS No. 16752-77-5

Other Ingredients:

% by
29

Total: $\frac{71}{10}$

ACTION REQUESTED: The Risk Manager requests: "83100-ET, methomyl, generic 29% end-use; Please review product acute toxicology (MRID 482239-04) for new methomyl end-use product. Also, please comment on claim of similarity to 352-384."

BACKGROUND: ROTAM Agrochemical Company, Ltd. (herein the "registrant") has submitted acute oral, acute dermal, acute inhalation, primary eye irritation, primary skin irritation and dermal sensitization studies (MRID 48223904) in support of their registration for ROTAM Methomyl 29LV Insecticide, EPA File Symbol: 83100-ET. The studies were performed at Eurofins|Product Safety Laboratories. Included in the data package was the study volume, basic CSF (dated 11/10/2009), proposed label, letter from the Agent for the registrant, and basic CSF and label for the proposed product).

COMMENTS AND RECOMMENDATIONS:

1. The six studies have been reviewed and all are classified as Acceptable.
2. The acute toxicity profile for ROTAM Methomyl 29LV Insecticide, EPA File Symbol: 83100-ET, is as follows:

Acute oral toxicity	II	Acceptable	MRID 48223904*
Acute dermal toxicity	III	Acceptable	MRID 48223904*
Acute inhalation toxicity	II	Acceptable	MRID 48223904*
Acute eye irritation	I	Acceptable	MRID 48223904*
Primary skin irritation	IV	Acceptable	MRID 48223904*
Dermal sensitization	Negative	Acceptable	MRID 48223904*

* All six studies were included in one volume and all assigned the same MRID. Please inform the registrant that each individual study should be submitted separately so that each study receives its own individual MRID. In addition, a copy of the original certificate of analysis was not provided in the study reports. Although these omissions had no effect on the overall acceptability of the studies, please inform the registrant that these should be included within each study report.

3. As a complete 6-pack of acute toxicity studies were submitted, a determination of similarity with respect to toxicity with 352-384 is not necessary. The precautionary label language and first aid statements must be based on the above acute toxicity profile. The proposed label for 83100-ET and the cited label for 352-384 are substantially similar in labeling of use sites.

4. The proposed label must be amended to include the Toxicity Category I signal word DANGER and the skull and crossbones symbol based on the Toxicity Category I classification for eye irritation and the presence of methanol at >4% of the formulation; the label must also be amended to include Toxicity Category I eye irritation precautionary language. Also, the proposed label does not contain Toxicity Category II acute inhalation precautionary label language; instead it includes Toxicity Category III language, therefore the label must be amended. In addition, as there was no corrosivity noted in the eye irritation study, the statement "Corrosive" does not need to be included on the label.

5. In addition to the above precautionary labeling issues, the proposed label contains reduced PPE for "applicators and other exposed to the diluted spray solution..." This reviewer has not examined any dilution studies or seen any justification from the registrant that supports the inclusion of reduced PPE label language. This reviewer recommends removing all dilution-use PPE language. In addition, this reviewer recommends that the chemical resistance category be changed to "C" due to the presence of methanol as a co-solvent.

PC Code: 090301
EPA File Symbol: 83100-ET

6. Based on the toxicity profile above, the following are the precautionary and first aid statements for this product as obtained from the Label Review System:

PRODUCT ID #: 083100-00027

PRODUCT NAME: ROTAM Methomyl 29LV Insecticide

PRECAUTIONARY STATEMENTS

SIGNAL WORD: DANGER POISON

SPANISH SIGNAL WORD: PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

Hazards to Humans and Domestic Animals:

Restricted Use Pesticide due to toxicity categories. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Contains Methanol. Methanol may cause blindness. Causes irreversible eye damage. May be fatal if swallowed or if inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Do not breathe spray mist. Avoid contact with skin.

Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category C). For handling activities, applicators must wear a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

USER SAFETY RECOMMENDATIONS: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

First Aid:

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

If inhaled:

- Move the person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

If on skin:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: [Note to PM/CRM/Registrant: The proposed label must contain a Note to Physician which

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addresses the category I Primary Eye Irritant toxicity. The following statement is required to appear on the label]:
Probable mucosal damage may contraindicate the use of gastric lavage.

NOTE TO PHYSICIAN: *[Note to CRM/PM/Registrant: The proposed label should contain a "Note to Physician" which addresses the presence of a cholinesterase inhibitor. The following statements are suggested types of information that may be included, if applicable: - technical information on symptomatology; - use of supportive treatments to maintain life functions; - medicine that will counteract the specific physiological effects of the pesticide; - company telephone number to specific medical personnel who can provide specialized medical advice.]*

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

7. The basic CSF (dated 11/10/2009) for the proposed product must be approved by the TRB Product Chemistry Team.

PC Code: 090301
EPA File Symbol: 83100-ET

Reviewer: Breann Hanson
Risk Manager (EPA): Thomas Harris, RM Team 07

Date: February 23, 2011

STUDY TYPE: Acute Oral Toxicity - Rat; OPPTS 870.1100; OECD 425

TEST MATERIAL: Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8)

CITATION: Durando, J. (2007) Acute Oral Toxicity Up and Down Procedure in Rats. Laboratory Study Number: 22668. Unpublished study prepared by Eurofins Product Safety Laboratories. October 18, 2007. MRID 48223904.

SPONSOR: ROTAM Agrochemical Company, Ltd.

EXECUTIVE SUMMARY: In an acute oral toxicity study (MRID 48223904), a total of seven young adult female rats (age: 9-10 weeks; weight: 184-210 g; source: Ace Animals, Inc., Boyertown, PA; strain: Sprague-Dawley derived, albino) were given a single oral dose of Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8), which was administered as a 10% w/v mixture in distilled water, by gavage at a dose of either 17.4, 55 or 174 mg/kg bw. Initially, a single animal was dosed at 17.4 mg/kg based on an estimated LD50 provided by the sponsor; an additional six animals were then dosed according to the Up and Down Procedure. The test substance was administered in sequence; the decision to proceed with the next animal was based on the survival of the previous animal post-dosing. Individual body weights were recorded prior to dosing (study day 0) and again on study days 7 and 14 or after death. The animals were observed for mortality, clinical signs of toxicity and behavioural changes during the first several hours post-dosing and at least once daily thereafter for the remainder of the 14-day study period. All animals were necropsied.

All animals dosed at 17.4 mg/kg bw (1 animal) and 55 mg/kg bw (3 animals) survived, gained body weight, and appeared active and healthy throughout the study period. No gross internal findings were observed at necropsy.

All animals dosed at 174 mg/kg bw (3 animals) died within 1-hour post-dosing. Prior to death, animals exhibited hypoactivity and tremors and/or hunched posture. At necropsy, red intestines were observed in all three decedents.

Oral LD₅₀ Females = 102.7 mg/kg bw (95% C.I. = 55 – 174 mg/kg bw)

Based on the calculated LD₅₀ in females, Methomyl 29% SL is classified as EPA Toxicity Category II.

This acute oral study is classified as Acceptable. It satisfies the guideline requirement for an acute oral study (OPPTS 870.1100; OECD 425) in the rat.

COMPLIANCE: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided.

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EPA File Symbol: 83100-ET

RESULTS and DISCUSSION: Individual animals were dosed as follows:

Limit Test				
Dosing Sequence	Animal No.	Dose level (mg/kg)	Short-Term Outcome	Long-Term Outcome
1	3101	17.4	S	S
2	3102	55	S	S
3	3103	174	D	D
4	3104	55	S	S
5	3105	174	D	D
6	3106	55	S	S
7	3107	174	D	D

S = survival D = death

Initially, a single animal was dosed at 17.4 mg/kg based on an estimated LD50 provided by the sponsor; an additional six animals were then dosed according to the Up and Down Procedure. The test substance was administered in sequence; the decision to proceed with the next animal was based on the survival of the previous animal post-dosing. The test substance was administered as a 10% w/v mixture in distilled water

Statistics: Acute Oral Toxicity (Guideline 425) Statistical Program (Westat, version 1.0, May 2001) was used for all data analyses including: dose progression selections, stopping criteria determinations and/or LD₅₀ and confidence limit calculations.

AOT425statpgm (Version: 1.0) Test Results and Recommendations
Acute Oral Toxicity (OECD Test Guideline 425) Statistical Program
Date/Time: Wednesday, February 23, 2011, 3:51:52 PM
Data file name: work.dat
Last modified: 2/23/2011 3:51:51 PM
Test/Substance: methomyl 29
Test type: Main Test
Limit dose (mg/kg): 2000
Assumed LD50 (mg/kg): Default
Assumed sigma (mg/kg): 0.5
Recommended dose progression: 2000, 550, 175, 55, 17.5, 5.5, 1.75

DATA:

Test Seq.	Animal ID	Dose (mg/kg)	Short-term Result	Long-term Result
1	3101	17.4	O	O
2	3102	55	O	O
3	3103	174	X	X
4	3104	55	O	O
5	3105	174	X	X
6	3106	55	O	O
7	3107	174	X	X

(X = Died, O = Survived)

Dose Recommendation: The main test is complete. Stopping criteria met: 5 reversals in 6 tests.

SUMMARY OF LONG-TERM RESULTS:

Dose	O	X	Total
17.4	1	0	1
55	3	0	3
174	0	3	3
All Doses	4	3	7

Statistical Estimate based on long term outcomes:
Estimated LD₅₀ = 102.7 (Based on an assumed sigma of 0.5).
Approximate 95% confidence interval is 55 to 174.

A. Mortality: All animals dosed at 17.4 mg/kg bw (1 animal) and 55 mg/kg bw (3 animals) survived throughout the study period. All animals dosed at 174 mg/kg bw (3 animals) died within 1-hour post-dosing.

B. Clinical observations: All animals dosed at 17.4 mg/kg bw (1 animal) and 55 mg/kg bw (3 animals) gained body weight, and appeared active and healthy throughout the study period. Prior to death in animals dosed at 174 mg/kg bw, animals exhibited hypoactivity and tremors and/or hunched posture.

C. Gross Necropsy: No gross internal findings were observed at necropsy for animals that survived the study period. At necropsy, red intestines were observed in all three decedents.

D. Reviewer's Conclusions: This reviewer agrees with the study author's conclusions. Based on the calculated LD₅₀ in females, Methomyl 29% SL is classified as EPA Toxicity Category II.

E. Deficiencies: A copy of the original certificate of analysis was not provided in the study report. This omission has no effect on the overall acceptability of the study.

PC Code: 090301
EPA File Symbol: 83100-ET

Reviewer: Breann Hanson
Risk Manager (EPA): Thomas Harris, RM Team 07

Date: February 23, 2011

STUDY TYPE: Acute Dermal Toxicity - Rat; OPPTS 870.1200; OECD 402

TEST MATERIAL: Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8)

CITATION: Durando, J. (2007) Acute Dermal Toxicity Study in Rats – Limit Test. Laboratory Study Number: 22669. Unpublished study prepared by Eurofins|Product Safety Laboratories. October 18, 2007. MRID 48223904.

SPONSOR: ROTAM Agrochemical Company, Ltd.

EXECUTIVE SUMMARY: In an acute dermal toxicity study (MRID 48223904), 5/sex rats (age: 10-11 weeks; weight: 323-371 g males, 212-228 g females; source: Ace Animals, Inc., Boyertown, PA; strain: Sprague-Dawley derived, albino) were dermally exposed to Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8) at a limit dose of 2000 mg/kg bw. The test substance was applied evenly over a dose area, covering approximately 10% of the body surface, covered with a gauze pad and then wrapped with tape and left in place for 24 hours. Post-exposure, the dose areas were gently cleansed. Individual body weights were recorded prior to application (study day 0) and again on study days 7 and 14. The animals were observed for mortality, clinical signs of toxicity and behavioural changes during the first several hours post-application and at least once daily thereafter for the remainder of the 14 day study period. All animals were necropsied.

All 10/10 animals survived and, apart from dermal irritation (erythema and edema) noted at the dose sites of all 5/5 female animals between study days 1 and 5, appeared active and healthy throughout the study period. Two female animals lost body weight through study day 7; all animals, with the exception of one female animal, exceeded their initial body weights at study termination. No gross internal findings were observed at necropsy.

Dermal LD₅₀ Males > 2000 mg/kg bw
Dermal LD₅₀ Females > 2000 mg/kg bw
Dermal LD₅₀ Combined > 2000 mg/kg bw

Based on the observed LD₅₀, Methomyl 29% SL is classified as EPA Toxicity Category III.

This acute dermal study is classified Acceptable. It does satisfy the guideline requirement for an acute dermal study (OPPTS 870.1200; OECD 402) in the rat.

COMPLIANCE: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided.

RESULTS and DISCUSSION:

Dose (mg/kg bw)	Mortality/Number Tested		
	Males	Females	Combined
2000	0/5	0/5	0/10

Statistics: No statistical analysis was required since all animals survived at the limit dose. The dermal LD₅₀ was observed as being > 2000 mg/kg.

A. Mortality: None; all animals survived.

B. Clinical observations: Apart from dermal irritation (erythema and edema) noted at the dose sites of all 5/5 female animals between study days 1 and 5, animals appeared active and healthy throughout the study period. Two female animals lost body weight through study day 7; all animals, with the exception of one female animal, exceeded their initial body weights at study termination.

C. Gross Necropsy: No gross internal findings were observed at necropsy.

D. Reviewer's Conclusions: This reviewer agrees with the study author's conclusions. Based on the LD₅₀, Methomyl 29% SL is classified as EPA Toxicity Category III.

E. Deficiencies: A copy of the original certificate of analysis was not provided in the study report. This omission has no effect on the overall acceptability of the study.

Reviewer: Breann Hanson
Risk Manager (EPA): Thomas Harris, RM Team 07

Date: February 23, 2011

STUDY TYPE: Acute Inhalation Toxicity - Rat; OPPTS 870.1300; OECD 403

TEST MATERIAL: Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8)

CITATION: Durando, J. (2007) Acute Inhalation Toxicity Study in Rats – Limit Test. Laboratory Study Number: 22670. Unpublished study prepared by Eurofins/Product Safety Laboratories. October 18, 2007. MRID 48223904.

SPONSOR: ROTAM Agrochemical Company, Ltd.

EXECUTIVE SUMMARY: In an acute inhalation toxicity study (MRID 48223904), 5/sex/group young adult rats (age: 9-11 weeks; weight: 266-379 g males; 206-240 g females; source: Ace Animals, Inc., Boyertown, Pennsylvania; strain: Sprague-Dawley derived, albino) were exposed nose-only via the inhalation route to Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8) for up to 4 hours at a gravimetrically determined concentration of either 0.053 mg/L or 0.35 mg/L. Individual animal body weights were recorded prior to exposure (initial) and again on study days 7 and 14 or after death. The animals were observed for mortality during the exposure period and for clinical signs of toxicity upon removal from the exposure chamber and at least once daily thereafter for the remainder of the 14 day study period. All animals were necropsied at the end of the study.

All 10/10 animals exposed to the test substance at a concentration of 0.053 mg/L survived, gained weight and appeared active and healthy throughout the study period. No gross internal findings were observed at necropsy. The MMAD was 2.15 μ m and the GSD 1.97.

All 10/10 animals exposed to the test substance at a concentration of 0.35 mg/L died within 1.25 hours of exposure. No clinical signs of toxicity were observed prior to death. At necropsy, discoloration and edema of the lungs were observed in all decedents.

LC₅₀ Combined > 0.053 mg/L
LC₅₀ Males > 0.053 mg/L
LC₅₀ Females > 0.053 mg/L

Based on the observed LC₅₀ being greater than 0.053 mg/L, Methomyl 29% SL is classified as EPA Toxicity Category II for acute inhalation toxicity.

This acute inhalation study is classified as acceptable. It does satisfy the guideline requirement for an acute inhalation study (OPPTS 870.1300; OECD 403) in the rat.

COMPLIANCE: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided.

RESULTS and DISCUSSION:

Nominal Conc. (mg/L)	Gravimetric Conc. (mg/L)	MMAD μ m	GSD	Mortality/Number Tested		
				Males	Females	Combined
1.47	0.053	2.15	1.97	0/5	0/5	0/10
18.68	0.35	--	--	5/5	5/5	10/10

Test Atmosphere / Chamber Description:

Gravimetric Conc. (mg/L):	0.053	0.35
Chamber Volume:	6.7 L	6.7 L
Total Airflow (mean):	25.7 LPM	25.7 LPM
Temperature:	21-23 °C	21-22 °C
Relative Humidity:	62-67%	62-67%
Time to equilibrium:	1.2 min	1.2 min

Test atmosphere concentration: Gravimetric: Samples were withdrawn periodically from the breathing zones of the animals during each exposure and collected using glass fiber filters. The filter paper was weighed before and after collection to determine the mass collected; and this, divided by the total volume of air sampled.

Particle size determination: Particle size was determined twice during exposure using an eight-stage Andersen cascade impactor. Samples were withdrawn from the breathing zone of the test animals onto filter papers which were weighed before and after sampling to determine the mass collected. MMAD and GSD were determined graphically using two-cycle log probit axes.

A. Mortality: All 10/10 animals exposed to the test substance at a concentration of 0.053 mg/L survived. All 10/10 animals exposed to the test substance at a concentration of 0.35 mg/L died within 1.25 hours of exposure.

B. Clinical observations: All 10/10 animals exposed to the test substance at a concentration of 0.053 mg/L gained weight and appeared active and healthy throughout the study period. The MMAD was 2.15 μ m and the GSD 1.97. No clinical signs of toxicity were observed prior to death in the 10/10 animals exposed to the test substance at a concentration of 0.35 mg/L.

C. Gross Necropsy: No gross internal findings were observed at necropsy for animals exposed to the test substance at a concentration of 0.053 mg/L. At necropsy, discoloration and edema of the lungs were observed in all decedents.

D. Reviewer's Conclusions: This reviewer agrees with the study author's conclusion. Based on the LC₅₀, Methomyl 29% SL is classified as EPA Toxicity Category II.

E. Deficiencies: A copy of the original certificate of analysis was not provided in the study report. This omission has no effect on the overall acceptability of the study.

PC Code: 090301
EPA File Symbol: 83100-ET

Reviewer: Breann Hanson
Risk Manager (EPA): Thomas Harris, RM Team 07

Date: February 24, 2011

STUDY TYPE: Primary Eye Irritation - Rabbit; OPPTS 870.2400; OECD 405

TEST MATERIAL: Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8)

CITATION: Durando, J. (2007) Primary Eye Irritation Study in Rabbits. Laboratory Study Number: 22671. Unpublished study prepared by Eurofins/Product Safety Laboratories. October 18, 2007. MRID 48223904.

SPONSOR: ROTAM Agrochemical Company, Ltd.

EXECUTIVE SUMMARY: In a primary eye irritation study (MRID 48223904), 0.1 mL of Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8) was instilled into the conjunctival sac of the right eye in three female young adult rabbits (source: Robinson Services, Inc., Clemmons, NC; strain: New Zealand albino). The untreated left eye served as a control. Prior to instillation, 2-3 drops of an ocular anesthetic were placed into both eyes of each test animal. Test animals were scored for irritation at approximately 1, 24, 48, and 72 hours post-instillation and again on study days 4, 7, 10, 14, 17 and 21. Fluorescein dye was used at the 24-hour and at subsequent observations, if needed, to verify the absence of corneal damage. Test animals were observed for clinical signs of toxicity and behavioural changes at least once daily throughout the study period. Irritation was scored based on Draize.

Apart from the eye irritation noted, animals appeared active and healthy throughout the study period. For the first 4 days post-instillation, all 3/3 treated eyes exhibited positive corneal opacity (score 1), iritis (score 1) and conjunctival redness (score 2), chemosis (score 2) and discharge (score 3). The overall incidence and severity of irritation decreased gradually thereafter. Ocular irritation persisted in one treated eye through study day 21 (study termination). The maximum mean total score was 37.0, observed at 24-hours. The test substance is classified as severely irritating to the eye.

Based on "positive" eye irritation persisting through study day 21, Methomyl 29% SL is considered severely irritating and classified as EPA Toxicity Category I for primary eye irritation.

This study is classified as Acceptable. It does satisfy the guideline requirement for a primary eye irritation study (OPPTS 870.2400; OECD 405) in the rabbit.

COMPLIANCE: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided.

RESULTS and DISCUSSION:

Observations	Number "positive"/number tested									
	Hours				Days					
	1	24	48	72	4	7	10	14	17	21
Corneal Opacity	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	1/3	1/3
Iritis	3/3	3/3	3/3	3/3	3/3	3/3	3/3	2/3	0/3	0/3
Redness *	3/3	3/3	3/3	3/3	3/3	0/3	0/3	0/3	0/3	0/3
Chemosis *	3/3	2/3	2/3	1/3	0/3	0/3	0/3	0/3	0/3	0/3
Discharge *	3/3	3/3	3/3	2/3	0/3	0/3	0/3	0/3	0/3	0/3
Severity of Irritation – Mean Score	34	37	36.3	35	32.3	23.3	19.3	12	4	2.3

*Score of 2 or more required to be considered "positive."

A. Observations: For the first 4 days post-instillation, all 3/3 treated eyes exhibited positive corneal opacity (score 1), iritis (score 1) and conjunctival redness (score 2), chemosis (score 2) and discharge (score 3). The overall incidence and severity of irritation decreased gradually thereafter. Ocular irritation persisted in one treated eye through study day 21 (study termination). The maximum mean total score was 37.0, observed at 24-hours.

B. Results: Methomyl 29% SL was severely irritating to the eye. The maximum mean total score was 37.0, observed at 24-hours.

C. Reviewer's Conclusions: This reviewer agrees with the study author's conclusions. Methomyl 29% SL is classified as EPA Toxicity Category I.

D. Deficiencies: A copy of the original certificate of analysis was not provided in the study report. This omission has no effect on the overall acceptability of the study.

PC Code: 090301
EPA File Symbol: 83100-ET

Reviewer: Breann Hanson
Risk Manager (EPA): Thomas Harris, RM Team 07

Date: February 24, 2011

STUDY TYPE: Primary Dermal Irritation - Rabbit; OPPTS 870.2500; OECD 404

TEST MATERIAL: Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8)

CITATION: Durando, J. (2007) Primary Skin Irritation Study in Rabbits. Laboratory Study Number: 22672. Unpublished study prepared by Eurofins|Product Safety Laboratories. October 18, 2007. MRID 48223904.

SPONSOR: ROTAM Agrochemical Company, Ltd.

EXECUTIVE SUMMARY: In a primary skin irritation study (MRID 48223904), 3 young adult female rabbits (source: Robinson Services, Inc., Clemmons, NC; strain: New Zealand albino) were dermally exposed to 0.5 mL of Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8). The test substance was applied to an intact dose site on each animal and covered with a gauze pad, wrapped with semi-occlusive tape and held in place for 4 hours. Dermal irritation was scored based on the Draize system within 30-60 minutes post-pad removal and again at approximately 24, 48 and 72 hours. Animals were observed for clinical signs of toxicity and behavioural changes at least once daily throughout the study period.

Apart from the dermal irritation noted, all animals appeared active and healthy throughout the study period. No edema was observed at any point during the study. Within 1-hour, all 3/3 treated sites exhibited very slight erythema (score 1). The overall incidence and severity of irritation decreased with time. Animals were free from dermal irritation within 48-hours. The primary dermal irritation index (PDII) score is 0.3.

Based on the lack of irritation noted at 48-hours, Methomyl 29% SL is classified as EPA Toxicity Category IV for primary skin irritation.

This study is classified as Acceptable. It does satisfy the guideline requirement for a primary skin irritation study (OPPTS 870.2500; OECD 404) in the rabbit.

COMPLIANCE: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided.

RESULTS and DISCUSSION:

**INDIVIDUAL SKIN IRRITATION SCORES
ERYTHEMA/EDEMA**

Animal No.	Sex	Hours			
		0.5 - 1	24	48	72
3501	F	1/0	0/0	0/0	0/0
3502		1/0	0/0	0/0	0/0
3503		1/0	1/0	0/0	0/0
Severity of Irritation - Mean Score		1/0	0.3/0	0/0	0/0

A. Observations: No edema was observed at any point during the study. Within 1-hour, all 3/3 treated sites exhibited very slight erythema (score 1). The overall incidence and severity of irritation decreased with time. Animals were free from dermal irritation within 48-hours.

B. Results: The PDII score is 0.3.

C. Reviewer's Conclusions: This reviewer agrees with the study author's conclusions. Based on the slight irritation observed, Methomyl 29% SL is classified as EPA Toxicity Category IV.

D. Deficiencies: A copy of the original certificate of analysis was not provided in the study report. This omission has no effect on the overall acceptability of the study.

PC Code: 090301
EPA File Symbol: 83100-ET

Reviewer: Breann Hanson
Risk Manager (EPA): Thomas Harris, RM Team 07

Date: February 24, 2011

STUDY TYPE: Dermal Sensitization – Guinea Pig; OPPTS 870.2600; OECD 406

TEST MATERIAL: Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8)

CITATION: Durando, J. (2007) Dermal Sensitization Study in Guinea Pigs (Buehler Method). Laboratory Study Number: 22673. Unpublished study prepared by Eurofins|Product Safety Laboratories. October 18, 2007. MRID 48223904.

SPONSOR: ROTAM Agrochemical Company, Ltd.

EXECUTIVE SUMMARY: In a dermal sensitization study (MRID 48223904) with Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8), 15/sex young adult guinea pigs (Weight: 332-417 g males, 318-387 f females; Source: Elm Hill Breeding Labs, Chelmsford, MA; strain: Hartley albino) were tested according to the Buehler method.

Twenty test animals were exposed to a single application per week for a 3 week induction period to 0.4 mL of the undiluted test substance. The test substance was applied to the left side of each test animal via an occlusive chamber which was secured and left in place for 6 hours. Approximately 24 and 48 hours after each induction animals were observed for dermal irritation and scored for irritation.

Twenty-seven days after the first induction, a challenge dose of 0.4 mL of the undiluted test substance was applied to naïve sites on the right sides of both the 20 test animals and to an additional 10 naïve control animals for 6 hours. The 10 naïve control guinea pigs were maintained under identical conditions and were treated with the test substance at challenge only. Approximately 24 and 48 hours after challenge application animals were observed for dermal irritation and scored for irritation.

The procedures were validated with alpha-hexylcinnamaldehyde as the positive control substance.

During the induction phase, very faint erythema (score 0.5) was noted for most test sites. At challenge, very faint erythema was noted for 12/20 test sites 24 hours after challenge; similar irritation persisted at 6/20 sites through 48 hours. Very faint erythema was noted for 3/10 naïve sites 24 hours after challenge; similar irritation persisted at only 1/10 naïve sites through 48 hours.

Based on this study, **Methomyl 29% SL is not a dermal sensitizer.**

This study is classified as acceptable. It does satisfy the guideline requirement for a primary dermal sensitization study (OPPTS 870.2600; OECD 406) in the Guinea pig.

COMPLIANCE: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided.

I. PROCEDURE

A. Induction - Twenty test animals were exposed to a single application per week for a 3 week induction period to 0.4 mL of the undiluted test substance. The test substance was applied to the left side of each test animal via an occlusive chamber which was secured and left in place for 6 hours. Approximately 24 and 48 hours after each induction animals were observed for dermal irritation and scored for irritation.

B. Challenge - Twenty-seven days after the first induction, a challenge dose of 0.4 mL of the undiluted test substance was applied to naïve sites on the right sides of both the 20 test animals and to an additional 10 naïve control animals for 6 hours. The 10 naïve control guinea pigs were maintained under identical conditions and were treated with the test substance at challenge only. Approximately 24 and 48 hours after challenge application animals were observed for dermal irritation and scored for irritation.

C. Naïve Controls - The 10 naïve control guinea pigs were maintained under identical conditions and were treated with the test substance at challenge only.

II. RESULTS and DISCUSSION:

A. Reactions and duration: During the induction phase, very faint erythema (score 0.5) was noted for most test sites. At challenge, very faint erythema was noted for 12/20 test sites 24 hours after challenge; similar irritation persisted at 6/20 sites through 48 hours. Very faint erythema was noted for 3/10 naïve sites 24 hours after challenge; similar irritation persisted at only 1/10 naïve sites through 48 hours.

B. Positive control: The study authors included a positive control Buehler Method study (PSL Study #: 21953) performed with alpha-hexylcinnamaldehyde. The results were appropriate for a positive control study; at challenge 7/10 test animals exhibited positive dermal reactions at 24 hours, at 48 hours 4/10 test animals still exhibited these responses. No control animals exhibited any signs of a positive dermal reaction.

The submitted study, reviewed herein, was completed in October 2007. The Buehler positive control study was completed in May 2007.

C. Reviewer's Conclusions: Agree with study author that the test substance is not a dermal sensitizer.

D. Deficiencies: A copy of the original certificate of analysis was not provided in the study report. This omission has no effect on the overall acceptability of the study.

PC Code: 090301
EPA File Symbol: 83100-ET

ACUTE TOX ONE-LINERS:

1. DP BARCODE: D383467				
2. PC CODE: 090301				
3. CURRENT DATE: 24/FEB/2011				
4. TEST MATERIAL: Methomyl 29% SL (Methomyl content: 29% (by weight); Batch No.: 20070703036; PSL Reference No.: 070710-5H; clear yellow liquid; pH: 4.8)				
Study/Species/Lab Study # /Date	MRID	Results	Tox. Cat.	Core Grade
Acute oral toxicity / rat Eurofins Product Safety Laboratories 22668 10/18//2007	48223904	Oral LD ₅₀ Females = 102.7 mg/kg bw (95% C.I. = 55-174 mg/kg bw)	II	A
Acute dermal toxicity / rat Eurofins Product Safety Laboratories 22669 10/18//2007	48223904	Dermal LD ₅₀ > 2000 mg/kg bw (males and females)	III	A
Acute inhalation toxicity / rat Eurofins Product Safety Laboratories 22670 10/18//2007	48223904	Inhalation LC ₅₀ > 0.053 mg/L (males and females)	II	A
Primary eye irritation / rabbit Eurofins Product Safety Laboratories 22671 10/18//2007	48223904	For the first 4 days post-instillation, all 3/3 eyes exhibited positive corneal opacity (score 1), iritis (score 1) and conjunctival redness (score 2), chemosis (score 2) and discharge (score 3). The overall incidence and severity of irritation decreased gradually thereafter. Irritation persisted in one treated eye through study termination. The max mean total score was 37.0.	I	A
Primary dermal irritation /rabbit Eurofins Product Safety Laboratories 22672 10/18//2007	48223904	No edema. Within 1-hour: 3/3 sites exhibited very slight erythema (score 1). The overall incidence and severity of irritation decreased with time. Animals were free from dermal irritation within 48-hours. The PDII score is 0.3.	IV	A
Dermal Sensitization /guinea pig Eurofins Product Safety Laboratories 22673 10/18//2007	48223904	Negative.	--	A

Core Grade Key: A =Acceptable, S = Supplementary, U = Unacceptable, W = Waived

FEE

DP BARCODE No.: D383465; **FILE SYMBOL No.:** 83100-ET; **DECISION No.:** 439801; **PC Code(s):** 090301; **Action Code:** R 310; **FOOD Use:** Yes

DATE OUT: March 18, 2011

SUBJECT: End Use Product Chemistry Review
Product Name: Rotam Methomyl 29% LV Insecticide

FROM: Shyam Mathur
Product Chemistry Team Leader
Technical Review Branch / Registration Division (7505P)

TO: Thomas Harris / John Hebert, PM 07
Insecticide-Rodenticide Branch / Registration Division (7505P)

Company Name: Rotam Agrochemical Co., Ltd
Formulation Type: Insecticide, Water Soluble Liquid (WSL)

A. INTRODUCTION:

The applicant submitted an application for registration of a new food use end use product. In support of the application, the applicant submitted product chemistry data corresponding to guideline 830 series, group A & group B (MRIDs 482239-01 through 482239-03). A CSF for a basic formulation (dated 11/10/2009) was submitted along with the product label. On the advice of the Agency, the registrant submitted a revised & corrected basic CSF and an alternate CSF (both dated 03-07-11). However, the IIAB determined that the revised alternate CSF (dated 03-07-11) contains one inert ingredient which is not approved by the Agency. The registrant on March 16, 2011 submitted a revised alternate CSF (dated 03-16-11) in which the non-approved inert ingredient was replaced by another equivalent inert ingredient. The primary review on the product chemistry data was conducted by Oak Ridge National Laboratory, Oak Ridge, TN, USA. TRB has been asked to determine the acceptability of the product chemistry data and the proposed revised CSF's for basic and alternate formulations.

B. SUMMARY OF FINDINGS:

1. Name of Active Ingredient(s): Methomyl (29.00%)
2. All the source materials for the active ingredients are derived from registered sources:
[] Yes; [X] No. The TGA (File Symbol [REDACTED]) is being registered concurrently.
3. All inert ingredients have been screened by IIAB and found to be approved for the proposed labeled uses
[X] Yes; [] No.
4. Confidential Statement of Formula(s):
[X] Basic - Dated: November 10, 2009; resubmitted (email on 03-10-11) - Dated: March 7, 2011
[X] Alternate (e-mail on 03-07-11) - Dated: March 7, 2011; resubmitted (e-mail 03-16-11)-Dated 03-16-11

Product ingredient source information may be entitled to confidential treatment

DP BARCODE No.: D383465; FILE SYMBOL No.: 83100-ET; DECISION No.: 439801; PC Code(s): 090301; Action Code: R 310; FOOD Use: Yes

5. Product label

- a. Ingredient statement: Nominal concentration of AI listed on CSF(s) concurs with product label (PR Notice 91-2)

☒ Yes, if not, explain below:

Metallic equivalent: ☐ Yes ☒ NA;
Soluble arsenic: ☐ Yes ☒ NA
Isomeric ratios: ☐ Yes ☒ NA
Acid equivalent: ☐ Yes ☒ NA; {name} acid equivalent = xx %

- b. Health related sub statements: Product contains?

Petroleum distillate at > 10%: ☐ Yes ☒ No ☐ NA
Methanol at > 4%: ☒ Yes ☐ No ☐ NA

- c. Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for: flammability, explosive potential or electric insulator breakdown?

☒ Yes ☐ No

Is the sub statement in compliance with PR Notice 97-6 (Total Release Fogger)?

☐ Yes, ☒ NA; ☐ No; if not, explain below:

Note: The product label uses the term "inert ingredients" rather than "other ingredients."

- d. Label requires an additional Storage and Disposal statement: ☐ Yes ☒ No; if yes explain below:

DP BARCODE No.: D383465; FILE SYMBOL No.: 83100-ET; DECISION No.: 439801; PC Code(s): 090301; Action Code: R 310; FOOD Use: Yes

6. Group A: Product Chemistry Data

TRB's determination of the acceptability of the data for the proposed product is listed in the tables below.

Guideline No.	Study Title		Data submitted		TRB's Assessment of Data	MRID Nos.
			Yes	No		
830.1550	Product Identity & Composition		X		A	482239-01
830.1600	Description of materials used to produce the product		X		A	482239-01
830.1650	Description of formulation process		X		A	482239-01
830.1670	Discussion on the formation of impurities		X		A	482239-01
830.1700	Preliminary analysis		NA			
830.1750	Certified limits (158.350)	Standard certified limits	X		A	482239-01
		Proposed Limits				
		Justification for wider limits				
830.1800	Enforcement analytical method		X		A	482239-02

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver Request, I = In Progress, NA = Not Applicable

DP BARCODE No.: D383465; FILE SYMBOL No.: 83100-ET; DECISION No.: 439801; PC Code(s): 090301; Action Code: R 310; FOOD Use: Yes

7. Group B:

Guideline No.	Study Title	Value or Qualitative Description	TRB's Assessment of Data	MRID Nos.
830.6303	Physical State	Liquid	A	482239-03
830.6315	Flammability	41.0 ± 0.5°C (105°F)	A	482239-03
830.6316	Explodability	One endothermic peak at 105.3°C; one exothermic peak at 211.7°C. The product shows explosive properties.	A	482239-03
830.7000	pH	5.90 at 20°C 6.33 at 25°C	A	482239-03 CSF
830.7300	Density (units)	D ²⁰ ₄ = 1.035	A	482239-03

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver request, NA = Not applicable, I = In progress

DP BARCODE No.: D383465; **FILE SYMBOL No.:** 83100-ET; **DECISION No.:** 439801; **PC Code(s):** 090301; **Action Code:** R 310; **FOOD Use:** Yes

8. CONCLUSIONS:

The TRB has reviewed the CSF(s) and product chemistry data for the proposed end use product and has concluded:

1. The proposed revised CSF for basic formulation (dated 03-07-11) & the revised CSF for alternate formulation (dated 03-16-11) are acceptable.
2. The data submitted corresponding to guideline 830.1600 (description of materials used to produce the product), 830.1650 (description of the formulation process), 830.1670 (discussion of the formation of impurities), 830.1750 (certified limits) and 830.1800 (enforcement analytical method) are acceptable.
3. The product chemistry data submitted corresponding to guidelines 830.6302 (color), 830.6303 (physical state), 830.6304 (odor), 830.6314 (oxidation/reduction:chemical incompatibility), 830.6316 (explosibility), pH (830.7000), viscosity (830.7100) and 830.7300 (density) are acceptable.
4. The test results of the guideline 830.6316 (explosibility) indicated that the test material shows potential explosive properties. The temperature range was 30°C to 330°C. Consequently, the registrant is required to put under Physical-Hazard warning following statement:

"The product shows potential explosive properties when heated to elevated temperatures".
5. The product label must be revised under Ingredient Statement as follows:

"Inert Ingredients" must be replaced by "Other Ingredients".
6. No data were submitted for guidelines 830.6317 (storage stability) and 830.6320 (corrosion characteristics). These tests must be conducted in the commercial containers. It is recommended that the observations should be made at 0, 3, 6, 9, and 12 month intervals.
7. The proposed product with File Symbol No. 83100-ET was found to be substantially similar to the cited product with Reg. No. 352-384 from the product chemistry point of view.
8. The proposed label was screened as it pertains to the product chemistry requirements. The final review of the proposed label and uses are the purview of the RM team.

DATA EVALUATION RECORD

METHOMYL
(Rotam Methomyl 29% LV Insecticide)

STUDY TYPES: **Product Identity and Composition (OPPTS 830.1550)**
Description of Materials Used to Produce the Product (OPPTS 830.1600)
Description of Production Process (830.1620)
Discussion of Formation of Impurities (OPPTS 830.1670)
Preliminary Analysis (OPPTS 830.1700)
Certified Limits (OPPTS 830.1750)
Enforcement Analytical Method (OPPTS 830.1800)
Physical and Chemical Characteristics (OPPTS 830.6302-830.7950)

MRIDs 482239-01 through 482239-03

Prepared for
Registration Division
Office of Pesticide Programs
U.S. Environmental Protection Agency
One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202

Prepared by
Toxicology and Hazard Assessment Group
Environmental Sciences Division
Oak Ridge National Laboratory
Oak Ridge, TN 37831
Task Order No. 1-69

Primary Reviewer:
Eric B. Lewis, M.S.

Secondary Reviewers:
Sylvia Milanez, Ph.D., D.A.B.T.

Cheryl B. Bast, Ph.D., D.A.B.T., Group Leader

Quality Assurance:
Kimberly G. Slusher, M.S.

Signature:

Date:

Signature:

Date:

Signature:

Date:

Signature:

Date:

Eric B. Lewis
FEB 02 2011
Sylvia Milanez
FEB 02 2011
Cheryl B. Bast
FEB 02 2011
Kimberly G. Slusher
FEB 02 2011

Disclaimer

This review may have been altered subsequent to the contractor's signatures above.

Oak Ridge National Laboratory managed and operated by UT-Battelle, LLC., for the U.S. Department of Energy under Contract No. DE-AC05-00OR22725.



RE: methomyl 83100: few quick corrections and we'll be done

Frank Sobotka o Thomas Harris

04/05/2011 03:26 PM

Revised labels per your comments.

Dr. Frank E. Sobotka, Senior Partner
IPM Resources LLC
4032 Crockers Lake Blvd.
Suite 818
Sarasota, FL 34238
PH: 215 497-9501
FX: 215 497-9502

> Subject: methomyl 83100: few quick corrections and we'll be done

> To: [REDACTED]

> From: harris.thomas@epamail.epa.gov

> Date: Tue, 5 Apr 2011 13:58:34 -0400

Personal privacy information

> Dr. Sobotka,

> Almost there. Just a couple of quick things. Just email me back the
> labels. I'll wrap them up when I get back from a meeting at 3pm.

> 83100-ET

> DFU/crop table - a) Pull down bottom line on header (it's obscuring
> the units) and b) repeat header row on all pages.

> 83100-EI

> Precautionary/PPE, pp 4, 37 (two occurrences) - Respirator not quite
> right.

> a) Delete "For exposure in enclosed areas:"

> b) Delete last sentence "Dust/mist filtering respirator"

> In the label filenames just put a "b" right after the date but before
> the period. This will distinguish the label from this morning's
> version.

> Tom Harris

> EPA/OCSPP/OPP/RD/IRB

> voice: (703) 308-9423

> fax: (703) 308-0029


> harris.thomas@epa.gov

> visit <http://www.epa.gov/pesticides>



> 083100-0027.20110405b.Primary Lbl.pdf 083100-0028.20110405b.Primary Lbl.pdf



methomyl 83100: few quick corrections and we'll be done 

Thomas Harris t
o Frank Sobotka
:

04/05/2011 01:58 PM

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Tom Harris
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voice: (703) 308-9423
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visit <http://www.epa.gov/pesticides>

[Front Container Label – Optional if Booklet is used as front container label]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP

1A

INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
<u>Other Ingredients</u>	71%
TOTAL	100%
Contains Methanol	

*Needs
correction
see Teferral 4/5/11 1:58 PM*

[Placeholder to identify Container type]

EPA Reg. No. 83100 - 27

EPA Est. No.: 5905-GA-01

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional Precautionary Statements on inside booklet and back panel of container and Directions for Use on inside booklet.

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons
TBA

[Booklet Cover]

PULL HERE TO OPEN ►

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP

1A

INSECTICIDE

Rotam Methomyl 29LV Insecticide

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
---------------------------------	-------------------------

Methomyl

(S-methyl-N-[(methylcarbamoyl)
oxy]thioacetimidate)

29%

<u>Other Ingredients</u>	71%
---------------------------------	-----

TOTAL

100%

Contains Methanol

[Placeholder to identify Container type]

EPA Reg. No. 83100 - 27

EPA Est. No.: 5905-GA-01

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons
TBA

Refer to inside for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, Engineering Controls Statements, Environmental Hazards and Directions for Use

FIRST AID

(N-Methyl Carbamate insecticide)

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact the National Poison Control Center 24-hr Emergency Hotline at: 1-800-222-1222.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS
AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Restricted Use Pesticide due to toxicity categories. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Contains Methanol. Methanol may cause blindness. Causes irreversible eye damage. May be fatal if swallowed or if inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Do not breathe spray mist. Avoid contact with skin.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as natural rubber or other materials in EPA category C.
- Socks and chemical resistant footwear.
- Protective eyewear.
- Chemical resistant apron.
- Respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENTS

Human flaggers must be in enclosed cabs.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must not assist in the mixing and loading operations.

USER SAFETY RECOMMENDATIONS

USERS SHOULD:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.
- Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean highwater mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation. The product shows potential explosive properties when heated to elevated temperatures.

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DIRECTIONS FOR USE

Restricted Use Pesticide

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). REI Summary: REI peaches = 4 day; REI apple, cotton, grapefruit, lemon, nectarine, orange, tangelo, tangerine = 3 day; all other WPS uses = 48 hour REI.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.

- Chemical-resistant gloves, such as barrier laminate or butyl rubber.

- Shoes plus socks.

- Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Do not formulate this product into other end-use products without written permission from Rotam.

ROTAM METHOMYL 29LV insecticide should be used only in accordance with directions for use on this label or in separate Rotam supplemental labeling. Rotam will not be responsible for use of the product in a manner not specified by Rotam in the product's labeling and User assumes all risk for such use.

ROTAM METHOMYL 29LV is a water soluble liquid that is applied by foliar application to control many important insect pests. ROTAM METHOMYL 29LV is mixed with water for application.

Do not apply thru Drip Chemigation unless accompanied by Rotam Supplemental Labeling.

Pilots must not assist in the mixing and loading operations.

Do not apply by ground equipment within 25 feet, or by air within 100 feet of lakes, reservoirs, rivers, estuaries, commercial fish ponds and natural, permanent streams, marshes or natural, permanent ponds. Increase the buffer zone to 450 feet from the above aquatic areas when ultra low volume application is made.

Hand-held equipment is prohibited for applications to crops. This product must be applied to crops only with mechanical ground, overhead sprinkler chemigation or aerial application equipment.

Use only in commercial and farm plantings. Not for use in home plantings. Not for use during any period after a commercial crop site is opened for public entry as a "U-Pick", "Pick Your Own" or similar operation; in no case shall preharvest applications be made after first public entry. The restricted entry interval and preharvest interval for the crop stated elsewhere on this label must be followed.

RESISTANCE MANAGEMENT

For resistance management, ROTAM METHOMYL 29LV insecticide is a group 1A insecticide. Repeated and exclusive use of ROTAM METHOMYL 29LV or other group 1A insecticides may lead to the build-up of resistant strains of insects in some crops. Not all members of this group have been shown to be cross-resistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different sub-groups within this group may be an acceptable part of an integrated pest management program.

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below the economic threshold. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

INTEGRATED PEST MANAGEMENT

This product should be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult

your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

SCOUTING

Monitor insect populations to determine whether or not there is a need for application of ROTAM METHOMYL 29LV based on locally determined economic thresholds. More than one treatment of ROTAM METHOMYL 29LV may be required to control a population of pests.

BENEFICIAL ARTHROPODS

ROTAM METHOMYL 29LV at rates of 2/5 to 3/4 pint per acre helps conserve certain beneficials, including big-eyed bugs, damsel bugs, flower bugs and spiders in cotton and soybeans. While these beneficials cannot be relied upon to control pests, they are of potential value and should be monitored along with pests in pest management programs on these crops.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying ROTAM METHOMYL 29LV.

Fill spray tank 1/4 to 1/2 full of water. Add ROTAM METHOMYL 29LV directly to spray tank. Mix thoroughly. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

Compatibility — Since formulations may be changed and new ones introduced, in this situation users can premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.) before applying the product. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use ROTAM METHOMYL 29LV with Bordeaux mixture (copper sulfate and hydrated lime), Du Ter triphenyltin hydroxide, lime sulfur, Rayplex iron nor in highly alkaline solutions. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

Tank Mix Sequence – Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

1. Water soluble bags.
2. Water dispersible granules.
3. Wettable powders.
4. Water based suspension concentrates.
5. ROTAM METHOMYL 29LV and other water soluble concentrates.
6. Oil based suspension concentrates.
7. Emulsifiable concentrates.
8. Adjuvants, surfactants, oils, soluble fertilizers, and drift retardants. Follow local practice and manufacturer's recommendation.

APPLICATION

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Follow-up treatments of ROTAM METHOMYL 29LV should be applied, as needed, to keep pest populations within threshold limits. On most crops, ROTAM METHOMYL 29LV should be applied at 5 to 7 day intervals to maintain control. Refer to crop specific directions for use in the crop tables for more specific information on treatment intervals.

Use sufficient water to obtain thorough, uniform coverage. Since ROTAM METHOMYL 29LV is a fast acting contact insecticide, best results follow direct spraying of the target insect.

For aerial, use a minimum of 2 gals. per acre (gpa) except 10 gpa for peaches and nectarines; 15 gpa for oranges, lemons, grapefruit, tangelos and tangerines.

ROTAM METHOMYL 29LV is recommended for use as a low volume aerial spray 0.53 gpa (2L) for cotton* and soybeans* and 1 gpa for the crops listed below providing the following conditions are met:

- equipment is adjusted to distribute spray uniformly over the spray swath,
- wind conditions and other factors such as temperature and humidity are such
- that the spray is delivered to the target area,
- local regulations do not prohibit low-volume aerial sprays,
- use rates are applied as directed on the package label or supplemental labeling for the following crops:

Alfalfa	Celery	Peas (succulent)
Anise	Collards	Peppermint
Asparagus	Corn	Peppers
Barley	Cotton	Potato
Beans	Cucumber	Rye
Broccoli	Lettuce	Soybean
Brussels sprouts	Melons	Spinach
Cabbage	Mint	Sugar beet
Carrot	Oats	Summer Squash
Cauliflower	Peanuts	Wheat

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Thereafter, use the lowest rate possible to maintain control.

* Not Registered for aerial application in a diluted volume of less than 1 gal in CA.

SPRAY TANK CLEANOUT

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

CHEMIGATION

Instructions for the Use of ROTAM METHOMYL 29LV on Alfalfa, Barley, Oats, Green and Dry Bulb Onions, Potatoes, Rye, Sugar Beets and Wheat Using Overhead Sprinkler Chemigation

Do not apply thru Drip Chemigation unless accompanied by Rotam Supplemental Labeling.

Chemigation: Overhead sprinkler chemigation is allowed for use in alfalfa, barley, succulent and dry beans, oats, onions, succulent peas, potatoes, rye, sugar beets, sweet corn and wheat. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in supplemental labeling.

Overhead chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical chemigation applications are more dilute than ground or aerial applications. For best results, it is recommended to keep the concentration of ROTAM METHOMYL 29LV as high as possible in the application. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre.

ROTAM METHOMYL 29LV is most active as a contact insecticide, although it does also have activity via ingestion of treated plants. For best results, applications of ROTAM METHOMYL 29LV should take place when the insects are active and most likely to come into direct contact with the application.

Types of Irrigation Systems:

ROTAM METHOMYL 29LV may be applied through overhead sprinkler irrigation systems for control of various pests. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens. Do not apply ROTAM METHOMYL 29LV through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN, or this product label.

General Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of ROTAM METHOMYL 29LV in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of ROTAM METHOMYL 29LV into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of ROTAM METHOMYL 29LV. Once in solution, no further agitation is required. Injection solution should not be stored overnight. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic (pH5-7).

Injection Into Chemigation Systems

Inject the proper amount of the ROTAM METHOMYL 29LV solution into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

Uniform Water Distribution

The irrigation system used for application of ROTAM METHOMYL 29LV must provide for uniform distribution of ROTAM METHOMYL 29LV treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

Equipment calibration

Calibrate the irrigation system and injector before applying ROTAM METHOMYL 29LV. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for cleaners and repairers of application equipment when making adjustments or repairs on the chemigation system when ROTAM METHOMYL 29LV is in the irrigation water.

Required System Safety Devices

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Posting of Areas to be Treated

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes, or any other public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in ENGLISH. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color, which sharply contrasts with their immediate background. At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol shall be the words "PESTICIDE IN IRRIGATED WATER".

Posting for chemigation does not replace other posting and reentry requirements for farm worker safety.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system. End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

Nozzles in the immediate area of control panels, chemical supply tanks, wellheads and system safety devices must be plugged to prevent contamination of these areas.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity**, and **Temperature Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types and the lowest drift.
- **Boom Length** - For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.
- **Application Height** - Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- **Swath Adjustment** - When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downward edges of the fields, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. These sprayers are not suitable for applying herbicides. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift..

Adjust deflectors and aiming devices so that spray is only directed into the canopy.

Block off upward pointed nozzles when there is no overhanging canopy.

Use only enough air volume to penetrate the canopy and provide good coverage.

Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

Repeat header

Crops	Insects	Rate ROTAM METHOMYL 29LV	Last Application -Days To Harvest	REI
Alfalfa	Pea Aphid Lygus Bugs Blotch Leafminer Aphids Egyptian Alfalfa Weevil Larvae Loopers Beet Armyworm Armyworm Alfalfa Caterpillar	1 1/2 - 3	7 *	48 hrs

	Fall Armyworm			
	Western Yellowstriped Armyworm			
	Yellowstriped Armyworm			
	Alfalfa Weevil Larvae	3		
	Variegated Cutworm	3/4 - 3		
<p>Do not apply to dormant or semi-dormant alfalfa when minimum. daily temp. is 50° F, or lower.</p> <p>Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop.</p> <p>Do not make more than 10 applications per crop.</p> <p>Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p>*Do not apply within 7 days of cutting or allowing livestock to graze.</p>				
Anise (Fennel)	Cabbage Looper	3	7	48 hrs
	Beet Armyworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop.			
Do not make more than 10 applications per crop.				
Apple Ground application only	Apple Aphid	1 1/2 - 3 *	14	72 hrs
	Rosy Apple Aphid			
	Tufted Apple Budmoth			
	Green Fruitworm			
	Tarnished Plant Bug			
	Codling Moth (10-12 day spray intervals)	3 *		
Leafrollers (Fruit-tree, Obliquebanded, Redbanded, Variegated)				
Lesser Appleworm				
White Apple Leafhopper				
Tentiform Leafminer				
Cutworm				
<p>Do not use on Early Macintosh & Wealthy varieties</p> <p>Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop.</p> <p>Do not make more than 5 applications per crop; minimum interval between treatments is 7 days.</p> <p>* Apply in a minimum of 50 gallons of water per acre.</p>				
Asparagus	Beet Armyworm	1 1/2 - 3	1	48 hrs
	Western Yellowstriped Armyworm			
	Asparagus Beetle			
	Spotted Asparagus Beetle			
White Cutworm				
Redbacked Cutworm				
Variegated Cutworm	1 1/2			
<p>Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop.</p> <p>Do not make more than 8 applications per crop.</p>				
Avocado	Western Avocado Leafroller	1 1/2 - 3	1	48 hrs
	Omnivorous Looper			

Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.				
Barley	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when the aphid population is low (<10 adults per stem).			
Beans (Succulent) Including: Kidney Lima Mung Navy Pinto Snap Wax Broad Fava Asparagus Blackeyed peas Cowpeas Chick peas Garbanzo beans Sweet lupine White sweet lupine White lupine Grain lupine	Leafhopper Mexican Bean Beetle	3/4 – 3	Succulent Beans - 3/4 - 1 1/2 pts. -- 1, over 1 1/2 pts. -- 3; 3 - Vines 7 - Hay	48 hrs
	Fall Armyworm Variegated Cutworm	1 1/2		
	Beet Armyworm Corn Earworm Saltmarsh Caterpillar Yellowstriped Armyworm Western Yellowstriped Armyworm Lygus Bugs Thrips Aphids Loopers*	1 1/2 - 3		
	European Corn Borer (Ovicide & Larvicide)-- Initiate when moth flights first appear and-continue preventive treatments at 3-4 day intervals To control eggs and larvae			
	Spotted Cucumber Beetle	3/4 – 1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Do not use for Loopers in AL & GA.			
	Beans (Dry) (Same as Succulent Beans)	(Same as Succulent Beans)	(Same as Succulent Beans)	14 - Dry Beans * 14 - Vines * 14 - Hay *

	Do not apply more than 15 pints of ROTAM METHOMYL 29LV/acre /crop. Do not make more than 10 applications per crop. Do not use for Loopers in AL & GA. *Do not apply within 14 days of cutting.			
Beets (Table)	Imported Cabbageworm	3/4 – 3	0 - roots 10 -tops	48 hrs
	Beet Armyworm Cabbage Looper Diamondback Moth	1 1/2 - 3		
	Cucumber Beetle Variegated Cutworm	1 1/2		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Bermudagrass pasture	Fall Armyworm Armyworm Striped Grass Looper	3/4 - 3	7 - Forage * 3 - Dehydrated Hay **	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * Do not apply within 7 days of feeding forage or allowing livestock to graze. ** Do not apply within 3 days of cutting for hay.			
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1 1/2	3	48 hrs
	Cranberry Fruitworm* Cherry Fruitworm*	1 1/2 – 3		
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	3		
	Blueberry Maggot	3/4–1 1/2		
	Do not apply during bloom. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * For ground use only.			
Broccoli	Loopers Diamondback Moth	1 1/2 - 3**	3	48 hrs
	Imported Cabbageworm	3/4 - 3**		
	Do not apply more than 21 pints of ROTAM METHOMYL29LV/acre/crop Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Brussels Sprouts	Loopers Imported Cabbageworm Diamondback Moth	1 1/2 – 3 **	3	48 hrs
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			

Cabbage	Loopers *	1 1/2 - 3 **	1	48 hrs
	Diamondback Moth			
	Fall Armyworm			
	Imported Cabbageworm	3/4 - 3 **		
	Variegated Cutworm	1 1/2 **		
Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. * Do not use for Loopers in AL & GA. ** Add a wetting agent to improve coverage.				
Carrot	Beet Armyworm	1 1/2 - 3	1	48 hrs
	Armyworms			
	Aster Leafhopper			
	Variegated Cutworm	3/4 - 1 1/2		
Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.				
Cauliflower	Imported Cabbageworm	3/4 - 3 **	3	48 hrs
	Loopers	1 1/2 - 3 **		
	Diamondback Moth			
	Variegated Cutworm	1 1/2 **		
Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.				
Celery	Beet Armyworm	1 1/2 - 3	7	48 hrs
	Aster Leafhopper			
	Loopers	3		
	Variegated Cutworm	1 1/2		
	Armyworms	3/4 - 3		
Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.				
Chicory	Beet Armyworm	1 1/2 - 3	80	48 hrs
	Variegated Cutworm			
Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.				
Chinese Cabbage	Loopers	1 1/2 - 3*	10	48 hrs
	Beet Armyworm			
Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Minimum of 25 gallons water per acre by ground or 5 gallons by air.				
Collards (Fresh market only)	Diamondback Moth	1 1/2	10	48 hrs
	Variegated Cutworm			
	Imported Cabbageworm	1 1/2 - 3		
Do not apply when temp. is less than 50° F. Do not apply when crop is less than 10" tall. Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Loopers in AL & GA.				

Corn (Field, Popcorn & Seed)	Earworm – (Ovicide/Larvicide) Armyworm Fall Armyworm European Corn Borer Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2	21 - Ears 3 - Forage* 21 - Stover*	48 hrs
	Variegated Cutworm, Beet Armyworm	1 1/2		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. *Corn forage is green actively growing plants that are harvested with the ears intact. The plants can be fed directly to animals or used to make silage. Corn stover are the parts of the plant that remain after removal of the grain at full plant maturity. These remaining stalks and leaves can be fed as roughage to animals.			
Corn (Sweet)	Earworm--Whorl as needed	1 – 1 1/2	0 -Ears 3 - Forage 21 - Stover	48 hrs
	Fall Armyworm Armyworm Earworm, (Ovicide/Larvicide) European Corn Borer -Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2		
	Variegated Cutworm Beet Armyworm	1 1/2		
	Certain hybrid varieties of sweet corn are susceptible to methomyl injury. Treat a small area to determine crop safety before full scale spraying. Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 28 applications per crop; minimum interval between treatments is 1 day.			
Cotton – All US	Ovicide/Larvicide - Bollworm Tobacco Budworm (Initiate schedule when significant numbers of eggs are present Continue at 3 to 5-day intervals while eggs are present and larval control is adequate. If significant larvae survive, use higher rates below.) Lygus Bugs/Plant Bugs (adults and nymphs) Start treatment on low level population for suppression.	2/5 - 3/4 (see Insect Predator Section)	15	72 hrs
	Cotton Leafworm	3/4 – 1 1/2		
	Cotton Fleahopper	2/5 – 3/4		

	(as needed)			
	Aphids, Thrips	3/4		
East of Rockies only	(Early Season) Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adults and nymphs) Use as occasional spray in regular schedule but not more often than every 10 days.	1 1/2		
	(Late Season) Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adult and nymphs) Up to 3 applications at 3-5 day intervals after desired boll load set on plants.	1 1/2 – 2 1/4		
Texas	Cotton Aphid	3/4 – 2		
West of Rockies only	Larvicide for worms: Bollworm Fall Armyworm Tobacco Budworm Lygus Bugs Beet Armyworm	1 1/2 – 2 1/4		
	Cotton Leafperforator	1 – 2 1/4		
For applications West of the Rockies, make applications on 3-5 day intervals after desired boll load set on plants. For all applications made to cotton in the United States: Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not graze or feed. Use may redden cotton. If excessive, stop or alternate with other insecticides.				
Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pt. -- 1 Over 1 1/2 pt.- 3	48 hrs
	Variegated Cutworm	1 1/2		
Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop.				

	Do not make more than 12 applications /crop.			
Eggplant	Green Peach Aphid	3/4 – 3	5	48 hrs
	Tomato Pinworm (Ground Application Only) Beet Armyworm Corn Earworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Endive, Escarole	Beet Armyworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Garlic	Beet Armyworm	1 1/2**	7	48 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. ** Add a wetting agent to improve coverage.			
Grapefruit CA, AZ & HI only	Thrips Fruitree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Horseradish (Ground application Only)	Aphids Thrips	1 1/2	65	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Leafy Green Vegetables: Beet (tops) Dandelions, Kale, Mustard Greens, Parsley, Swiss Chard, Turnip Greens	Beet Armyworm Cabbage Looper* Diamondback Moth Imported Cabbageworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Cabbage Loopers in AL & GA.			
Lemon CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Lentils	Western Yellowstriped Armyworm	1 1/2 - 3	21	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Lettuce (Head and Leaf varieties)	Alfalfa Looper	3/4 - 3	3/4-1 1/2 pt. -- 7 over 1 1/2 pts. – 10	48 hrs
	Thrips Aphids Beet Armyworm Cabbage Looper	1 1/2 - 3		

	Corn Earworm			
	Variegated Cutworm	1 1/2		
	Lettuce (head varieties) Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. Lettuce (leaf varieties) Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 2 days.			
Melons Including: Canteloupe Casaba Santa Claus melon Crenshaw melon Honeydew melon Honey balls Persian melon Golden Pershaw melon Mango melon Pineapple melon Snake melon Watermelon	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pts. -- 1 day over 1 1/2 pts. -- 3 days	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop.			
Mint (Peppermint, Spearmint)	Variegated Cutworm Alfalfa Looper	3	14	48 hrs
	Flea Beetles	2 1/4 - 3		
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Nectarine CA & AZ only	Thrips	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			
Oats	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs

	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			
Onions (Green & Dry Bulb)	Beet Armyworm	1 1/2 - 3**	7 - Green & Dry Bulb Onions	48 hrs
	Thrips* Variegated Cutworm Black Cutworm	3**		
	Onions, green Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 5 days. Onions, dry bulb Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum treatment interval between treatments is 5 days. *Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control thrips. Begin applications before thrips populations reach 3-5 thrips per plant. For best results, use the highest rate of ROTAM METHOMYL 29LV and a wetting agent. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. ** Add a wetting agent to improve coverage.			
Oranges CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Fruitree Leafroller Beet Armyworm Citrus Cutworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Peaches	Catfacing Insects (Plant Bugs and Stink Bugs) - begin at petal fall and continue in cover sprays at 7 to 10-day intervals Oriental Fruit Moth*	3 pt (or 3/4 pt per 100 gal up to 400 gal per acre)	4	4 days

	-begin at petal fall; use trapping devices and frequent field inspection to determine need for treatment. Continue treatment in cover sprays and alternate with residual-type insecticides registered for this use. Green Peach Aphid			
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. * Oriental Fruit Moth (Ground Application Only).			
Peanuts	Corn Earworm*	3/4 – 3	21	48 hrs
	Potato Leafhopper Fall Armyworm			
	Beet Armyworm	1 1/4 – 3		
	Green Cloverworm Velvetbean Caterpillar Cabbage Looper Soybean Looper ** Thrips Granulate Cutworm	1 1/2 – 3		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not feed treated vines. * ROTAM METHOMYL 29LV has ovicidal and larvicidal control on corn earworm. **Soybean Looper is difficult to control. Do not apply to worms greater than 1/2" long. Use higher rate for severe infestations.			
Pears Northeast only	Green Fruitworm Oblique banded Leafroller	1 1/2 - 3*	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Apply in a minimum of 50 gallons of water per acre.			
Peas (succulent) Including: Pigeon peas Chick peas Garbanzo beans Dwarf peas Garden peas Green peas English Peas Field peas Edible pod peas	Alfalfa Looper Cabbage Looper* Pea Aphid Beet Armyworm Saltmarsh Caterpillar Variegated Cutworm	1 1/2 - 3	1 - Peas 5 – Forage 14 - Hay	48 hrs
	Alfalfa Caterpillar Armyworm Green Cloverworm	3/4 - 3		
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop . Do not make more than 6 applications per crop; minimum interval between treatments is 3 days. * Do not use for Cabbage Loopers in AL & GA.			
Pecans Southeast only	Aphids	1 1/2 - 3	30	48 hrs
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 7 applications per crop.			
Peppers	Loopers	1 1/2 – 3	3	48 hrs

Including: Bell Hot Pimentos Sweet	Beet Armyworm			
	Green Peach Aphid			
	Armyworm			
	Fall Armyworm			
	Variegated Cutworm	3/4 – 1 1/2		
	European Corn Borer	3		
Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.				
Pomegranates	Omnivorous Leafroller	3	14	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Potato	Tuberworm*	1 1/2 – 3	6	48 hrs
	Loopers			
	Aphids			
	Beet Armyworm			
	Leafhoppers			
	Fall Armyworm			
	Variegated Cutworm	1 1/2		
	Flea Beetles			
Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Repeat applications of ROTAM METHOMYL 29LV on a 5-7 day schedule, or longer as needed, to control tuber worm populations. An application schedule of effective insecticides with different modes of action may be needed to keep foliar feeding larval populations as low as possible prior to harvest to reduce the risk of larval damage to the tubers. Failure to adequately control tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage.				
Rye	Armyworms	3/4 – 1 1/2	7	48 hrs
	Cereal Leaf Beetle*			
	Aphids**			

	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			
Sorghum Including: Sudangrass (except Sweet Sorghum)	Sorghum Webworm	1 1/2*	14**	48 hrs
	Sorghum Midge --Apply when 50% bloom and 3-5 days later if needed. Fall Armyworm (Budworm) Beet Armyworm Corn Earworm Armyworm	3/4 – 1 1/2*		
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Minimum of 10 gallons per acre by ground or 2 gallons per acre by air. ** Do not apply within 14 days of feeding forage or cutting for hay.			
Soybeans	Green Cloverworm Velvetbean Caterpillar Mexican Bean Beetle Corn Earworm - Light to moderate infestations	2/5 - 3/4 (see Insect Predator section)	14 - Soybeans 3 - Forage 12 - Hay	48 hrs
	Corn Earworm - Moderate to severe infestations	3/4 – 1 1/2		
	Soybean Aphid	1/2 – 1		
	Beet Armyworm Salt Marsh Caterpillar Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper - Light to moderate infestations	3/4 – 1		
	Silver Spotted Skipper - Moderate to severe infestations	1 – 1 1/2		
	Do not apply more than 4.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			

Spinach	Alfalfa Looper Cabbage Looper Beet Armyworm Fall Armyworm	1 1/2 - 3	7	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply when minimum daily temp. is 32° F, or lower. Do not apply to seedlings less than 3" diameter. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Sugar Beet	Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstripe Armyworm*	3/4 - 3	30 - Tops 21- Roots	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. *Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control beet armyworm, aphids and western yellowstriped armyworm. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.			
Summer Squash* Including: Crookneck squash Straightneck squash Scallop squash Vegetable marrow Spaghetti squash Hyotan Cucuzza Hechima Chinese okra Bitter melon Balsam pear Balsam apple Chinese Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pt. -- 1 day over 1 1/2 pt.-- 3 days	48 hrs
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop. * Fruit of the Gourd (Cucurbitaceae) family that are consumed when immature, 100% of the fruit is edible cooked or raw, once picked cannot be stored, has a soft rind which is easily penetrated, and if seeds were harvested they would not germinate			
Tangelo, Tangerine CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Tobacco (Except shade)	Flea Beetle Hornworm	3/4 - 1 1/2	5 - Flue cured 14 - Air or fire cured	48 hrs
	Loopers Aphids Tobacco Budworm Fall Armyworm	1 1/2		

	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.			
Tomato (Including Tomatillos*)	Tomato Fruitworm	1 1/2 - 3	1	48 hrs
	Aphids			
	Hornworm			
	Loopers			
	Beet Armyworm			
	Southern Armyworm			
	Pinworm			
	Armyworm			
	Fall Armyworm			
	Variegated Cutworm	1 1/2		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 16 applications per crop. * For tomatillos do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.			
Turf (For use on sod farms only)	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	3 (1.1 fl. ozs. per 1000 sq. ft.)		48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Do not graze or feed.			
Wheat	Armyworms	3/4 – 1 1/2	7	48 hrs
	Cereal Leaf Beetle* Aphids**			
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Storage and Disposal Continued

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures.

^{Tip} container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Storage and Disposal Continued

All Refillable Containers: Refillable container. Refilling Container: Refill this container with ROTAM METHOMYL 29LV containing methomyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting.

Disposing of Container: Do not reuse this container for any other purpose other than refilling (see proceeding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not transport if container is damaged or leaking.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Rotam Agrochemical Company Limited or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Rotam Agrochemical Company Limited and Seller harmless for any claims relating to such factors.

Rotam Agrochemical Company Limited warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Rotam Agrochemical Company Limited, and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW ROTAM LTD MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law, Rotam Agrochemical Company Limited or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ROTAM AGROCHEMICAL COMPANY LIMITED AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ROTAM AGROCHEMICAL COMPANY LIMITED OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Rotam Agrochemical Company Limited and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Rotam Agrochemical Company Limited.

Manufactured by:
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Registered: [TBA]

[Back Page of Booklet - remains on the container when booklet is removed]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP 1A INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
<u>Other Ingredients</u>	71%
TOTAL	100%
Contains Methanol	

[Placeholder to identify Container type]

EPA Reg. No. 83100 - 27

EPA Est. No.: 5905-GA-01

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Refer to inside label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, Engineering Controls Statements, Environmental Hazards and Directions For Use.

FIRST AID
(N-Methyl Carbamate insecticide)

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact the National Poison Control Center 24-hr Emergency Hotline at: 1-800-222-1222.

**HAZARDS TO HUMANS
AND DOMESTIC ANIMALS
KEEP OUT OF REACH OF CHILDREN
DANGER POISON**



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Restricted Use Pesticide due to toxicity categories. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Contains Methanol. Methanol may cause blindness. Causes irreversible eye damage. May be fatal if swallowed or if inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Do not breathe spray mist. Avoid contact with skin.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as natural rubber or other materials in EPA category C.
- Socks and chemical resistant footwear.
- Protective eyewear.
- Chemical resistant apron.
- Respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of

equipment washwater or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation. The product shows potential explosive properties when heated to elevated temperatures.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Storage and Disposal Continued

CONTAINER HANDLING:

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. ^{Tip} container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Storage and Disposal Continued

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers: Refillable container. Refilling Container: Refill this container with ROTAM METHOMYL 29LV containing methomyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting.

Disposing of Container: Do not reuse this container for any other purpose other than refilling (see proceeding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not transport if container is damaged or leaking.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Registered: (TBA)

Net Contents
Gallons
TBA



Frank Sobotka t
o Thomas Harris
:

04/05/2011 10:10 AM

History: This message has been replied to.

Trust I found and made all the correct changes you indicated on your email. See attached revised labels. Please acknowledge receipt of this email. Thanks,

Dr. Frank E. Sobotka, Senior Partner
IPM Resources LLC
4032 Crockers Lake Blvd.
Suite 818
Sarasota, FL 34238
PH: 215 497-9501
FX: 215 497-9502



083100-0027.20110405.Primary Lbl.pdf



083100-0028.20110405.Primary Lbl.pdf



a few more corrections for 83100-ET and 83100-EI

Thomas Harris o Frank Sobotka

04/05/2011 05:00 AM

Dr. Sobotka,

Thanks for the revised labels. You did a good job correcting them. I noticed you even found a few errors I had missed (eg. First Aid, If Swallowed). Just a few more corrections. I'll be in meetings for a few hours Tuesday morning so you'll have time to make these changes and email me revised labels.

83100-ET

1) Front panel(s) - Below ingredient statement (all occurrences throughout label) put a placeholder for text to say either "refillable container" or "nonrefillable container". This text is referenced in the Storage Disposal and guides the user to the proper disposal directions.

2) Precautionary Statements - Delete the personal protective equipment text at the end of the intro paragraph ("Contains methanol. Methanol may cause blindness"). This text is not necessary since it is followed by a PPE section. Worse, it conflicts with PPE section in some areas.

Note: It is ok to retain a general reference like "wear protective eyewear" in the Precautionary Statement intro paragraph if you wish to emphasize a particularly important piece of PPE. Just be careful that the text does not conflict with the specific PPE in the PPE section. If in doubt, leave PPE out of intro paragraph.

Note 2: You may have copied this from the acute tox review. Don't. We have a program that writes the text for the review when you enter the acute tox categories but the grammar in the resulting text is terrible and the PPE not entirely complete. Instead, determine the PPE using the acute tox categories and the Label Review Manual.

3) DFU/Crop Directions - In several locations (eg. alfalfa, barley, oats, peas, potato, rye, wheat) you have added two sentences for the concepts to a) use a wetting agent to improve performance, and b) spray at 5-7 day intervals. Where did these come from? I don't see them on the Dupont label. While I normally wouldn't care about directions on optimizing performance, the wetting agent could be a problem. When we set tolerances the residue studies were suppose to have been done either with or without a surfactant as directed on the label. It would be fairly common for residues set without a surfactant to be exceeded when a surfactant is used (i.e. the surfactant often enhances penetration into crop).

Either a) delete these two statements (at least wetting agent one) (all occurrences) if you just added them without similar text on the Dupont label or b) you can leave them if they appear somewhere on the Dupont label.

4) DFU/peas - Delete chemigation text. This does not occur on the Dupont Sec 3 label. Might be on an SLN or Supplemental but you should not use on Rotam product.

5) DFU/Storage and Disposal - Looks good; very complete. If you wish, you can delete directions for any type/size container that will not be used by Rotam product. For example, if you will only market in non-refillable 2.5 and 5 gal containers then you do not need the >5 gal or IBC or refillable directions. Up to you.

6) p. 38, back page of booklet that remains on container - Delete the current PPE paragraph. Replace with PPE section as per earlier in label on p. 5. As before, current PPE in paragraph does not agree with PPE section (latter is correct).

83100-EI

1) Precautionary Statements -

a) Replace intro paragraph with the following which separates hazards and what not to do text:

"Fatal if swallowed. May be fatal if inhaled or gets in eyes. Do not breathe dust. Do not get in eyes. Avoid contact with clothing."

b) Delete washing instructions. Put in separate section per (d) below.

c) Delete the personal protective equipment text at the end of the intro paragraph ("Fatal if swallowed...."). This text is not necessary since it is followed by a PPE section. Worse, it conflicts with PPE section in some areas.

Note: It is ok to retain a general reference like "wear protective eyewear" in the Precautionary Statement intro paragraph if you wish to emphasize a particularly important piece of PPE. Just be careful that the text does not conflict with the specific PPE in the PPE section. If in doubt, leave PPE out of intro paragraph.

d) Add a "User safety recommendations" section as on 83100-ET.

2) Precautionary Statements, PPE - Delete "Respirator as outlined below" bullet, "For exposure in enclosed areas", Start "Respirator" with capital "R", delete "For exposures outdoors." Sorry, I missed these in my initial review.

Note: The "Engineering control" section will provide alternate PPE for normal use of the water soluble packets by mixer/loaders. The PPE section is used by other handlers (applicators, cleaners, etc).

3) DFU/Storage Disposal - If you will only package in water soluble packets in foil liner in a box, you can delete the disposal sections for "fiber drums with liners" and "paper and plastic bags". Dupont uses these for some bulk product but they may not apply to Rotam product. Your choice.

4) p. 38, back page of booklet that remains on container - As in #1 above,

a) Correct intro Precautionary Statements paragraph.

b) Delete washing instructions in intro paragraph.

c) Remove current PPE in intro paragraph in Precautionary Statements.

d) Add a PPE section as on p. 5 earlier in label.

e) Add a "User safety recommendations" section as on 83100-ET.

Excuse the odd hour of sending this. I had reviewed your revised labels yesterday afternoon then brought them home to write/send this email. In the middle of writing the corrections our power went out. Of course, I had not save my corrections as I wrote them! Power just came back on along with all the lights in the house, hence I'm awake! You can be sure I save my writing a dozen times as I composed this email. I'd better send this email before power goes out again.

Tom Harris
EPA/OCSP/OPP/RD/IRB
voice: (703) 308-9423
fax: (703) 308-0029

[Front Container Label – Optional if Booklet is used as front container label]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP 1A INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
<u>Other Ingredients</u>	71%
TOTAL	100%
Contains Methanol	

needs
correction
see email 4/5/11
5:00 AM

EPA Reg. No. 83100 - 27

EPA Est. No.: 5905-GA-01

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional Precautionary Statements on inside booklet and back panel of container and Directions for Use on inside booklet.

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons
TBA

[Booklet Cover]

PULL HERE TO OPEN ►

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP

1A

INSECTICIDE

Rotam Methomyl 29LV Insecticide

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

Active Ingredient

By Weight

Methomyl

(S-methyl-N-[(methylcarbamoyl)
oxy]thioacetimidate)

29%

Other Ingredients

71%

TOTAL

100%

Contains Methanol

EPA Reg. No. 83100 - 27

EPA Est. No.: 5905-GA-01

Manufactured by:

Rotam Agrochemical Company Ltd.

7/F Cheung Tat Centre

18 Cheung Lee Street

Chai Wan, Hong Kong

1-866-927-6826

Net Contents
Gallons
TBA

Refer to inside for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, Engineering Controls Statements, Environmental Hazards and Directions for Use

FIRST AID
(N-Methyl Carbamate insecticide)

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact the National Poison Control Center 24-hr Emergency Hotline at: 1-800-222-1222.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS
AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Restricted Use Pesticide due to toxicity categories. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Contains Methanol. Methanol may cause blindness. Causes irreversible eye damage. May be fatal if swallowed or if inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Do not breathe spray mist. Avoid contact with skin.

Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category C). For handling activities, applicators must wear a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

PRECAUTIONARY STATEMENTS (Continued)

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:

Long-sleeved shirt and long pants.

Chemical-resistant gloves, such as natural rubber or other materials in EPA category C.

Socks and chemical resistant footwear.

Protective eyewear.

Chemical resistant apron.

Respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENTS

Human flaggers must be in enclosed cabs.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must not assist in the mixing and loading operations.

USER SAFETY RECOMMENDATIONS

USERS SHOULD:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.
- Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean highwater mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation. The product shows potential explosive properties when heated to elevated temperatures.

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DIRECTIONS FOR USE

Restricted Use Pesticide

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). REI Summary: REI peaches = 4 day; REI apple, cotton, grapefruit, lemon, nectarine, orange, tangelo, tangerine = 3 day; all other WPS uses = 48 hour REI.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.

- Chemical-resistant gloves, such as barrier laminate or butyl rubber.

- Shoes plus socks.

- Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Do not formulate this product into other end-use products without written permission from Rotam.

ROTAM METHOMYL 29LV insecticide should be used only in accordance with directions for use on this label or in separate Rotam supplemental labeling. Rotam will not be responsible for use of the product in a manner not specified by Rotam in the product's labeling and User assumes all risk for such use.

ROTAM METHOMYL 29LV is a water soluble liquid that is applied by foliar application to control many important insect pests. ROTAM METHOMYL 29LV is mixed with water for application.

Do not use for Drip Chemigation unless accompanied by Rotam supplemental Labeling.

Pilots must not assist in the mixing and loading operations.

Do not apply by ground equipment within 25 feet, or by air within 100 feet of lakes, reservoirs, rivers, estuaries, commercial fish ponds and natural, permanent streams, marshes or natural, permanent ponds. Increase the buffer zone to 450 feet from the above aquatic areas when ultra low volume application is made.

Hand-held equipment is prohibited for applications to crops. This product must be applied to crops only with mechanical ground, overhead sprinkler chemigation or aerial application equipment.

Use only in commercial and farm plantings. Not for use in home plantings. Not for use during any period after a commercial crop site is opened for public entry as a "U-Pick", "Pick Your Own" or similar operation; in no case shall preharvest applications be made after first public entry. The restricted entry interval and preharvest interval for the crop stated elsewhere on this label must be followed.

RESISTANCE MANAGEMENT

For resistance management, ROTAM METHOMYL 29LV insecticide is a group 1A insecticide. Repeated and exclusive use of ROTAM METHOMYL 29LV or other group 1A insecticides may lead to the build-up of resistant strains of insects in some crops. Not all members of this group have been shown to be cross-resistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different sub-groups within this group may be an acceptable part of an integrated pest management program.

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below the economic threshold. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

INTEGRATED PEST MANAGEMENT

This product should be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection

methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

SCOUTING

Monitor insect populations to determine whether or not there is a need for application of ROTAM METHOMYL 29LV based on locally determined economic thresholds. More than one treatment of ROTAM METHOMYL 29LV may be required to control a population of pests.

BENEFICIAL ARTHROPODS

ROTAM METHOMYL 29LV at rates of 2/5 to 3/4 pint per acre helps conserve certain beneficials, including big-eyed bugs, damsel bugs, flower bugs and spiders in cotton and soybeans. While these beneficials cannot be relied upon to control pests, they are of potential value and should be monitored along with pests in pest management programs on these crops.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying ROTAM METHOMYL 29LV.

Fill spray tank 1/4 to 1/2 full of water. Add ROTAM METHOMYL 29LV directly to spray tank. Mix thoroughly. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

Compatibility — Since formulations may be changed and new ones introduced, in this situation users can premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.) before applying the product. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use ROTAM METHOMYL 29LV with Bordeaux mixture (copper sulfate and hydrated lime), Du Ter triphenyltin hydroxide, lime sulfur, Rayplex iron nor in highly alkaline solutions. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

Tank Mix Sequence – Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

1. Water soluble bags.
2. Water dispersible granules.
3. Wettable powders.
4. Water based suspension concentrates.
5. ROTAM METHOMYL 29LV and other water soluble concentrates.
6. Oil based suspension concentrates.
7. Emulsifiable concentrates.
8. Adjuvants, surfactants, oils, soluble fertilizers, and drift retardants. Follow local practice and manufacturer's recommendation.

APPLICATION

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate

threshold levels for treatment in your area.

Follow-up treatments of ROTAM METHOMYL 29LV should be applied, as needed, to keep pest populations within threshold limits. On most crops, ROTAM METHOMYL 29LV should be applied at 5 to 7 day intervals to maintain control. Refer to crop specific directions for use in the crop tables for more specific information on treatment intervals.

Use sufficient water to obtain thorough, uniform coverage. Since ROTAM METHOMYL 29LV is a fast acting contact insecticide, best results follow direct spraying of the target insect.

For aerial, use a minimum of 2 gals. per acre (gpa) except 10 gpa for peaches and nectarines; 15 gpa for oranges, lemons, grapefruit, tangelos and tangerines.

ROTAM METHOMYL 29LV is recommended for use as a low volume aerial spray 0.53 gpa (2L) for cotton* and soybeans* and 1 gpa for the crops listed below providing the following conditions are met:

- equipment is adjusted to distribute spray uniformly over the spray swath,
- wind conditions and other factors such as temperature and humidity are such
- that the spray is delivered to the target area,
- local regulations do not prohibit low-volume aerial sprays,
- use rates are applied as directed on the package label or supplemental labeling for the following crops:

Alfalfa	Celery	Peas (succulent)
Anise	Collards	Peppermint
Asparagus	Corn	Peppers
Barley	Cotton	Potato
Beans	Cucumber	Rye
Broccoli	Lettuce	Soybean
Brussels sprouts	Melons	Spinach
Cabbage	Mint	Sugar beet
Carrot	Oats	Summer Squash
Cauliflower	Peanuts	Wheat

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Thereafter, use the lowest rate possible to maintain control.

* Not Registered for aerial application in a diluted volume of less than 1 gal in CA.

SPRAY TANK CLEANOUT

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local

regulations.

CHEMIGATION

Instructions for the Use of ROTAM METHOMYL 29LV on Alfalfa, Barley, Oats, Green and Dry Bulb Onions, Potatoes, Rye, Sugar Beets and Wheat Using Overhead Sprinkler Chemigation

Do not use for Drip Chemigation unless accompanied by Rotam Supplemental Labeling.

Chemigation: Overhead sprinkler chemigation is allowed for use in alfalfa, barley, succulent and dry beans, oats, onions, succulent peas, potatoes, rye, sugar beets, sweet corn and wheat. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in supplemental labeling.

Overhead chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical chemigation applications are more dilute than ground or aerial applications. For best results, it is recommended to keep the concentration of ROTAM METHOMYL 29LV as high as possible in the application. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre.

ROTAM METHOMYL 29LV is most active as a contact insecticide, although it does also have activity via ingestion of treated plants. For best results, applications of ROTAM METHOMYL 29LV should take place when the insects are active and most likely to come into direct contact with the application.

Types of Irrigation Systems:

ROTAM METHOMYL 29LV may be applied through overhead sprinkler irrigation systems for control of various pests. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens. Do not apply ROTAM METHOMYL 29LV through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN, or this product label.

General Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of ROTAM METHOMYL 29LV in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of ROTAM METHOMYL 29LV into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of ROTAM METHOMYL 29LV. Once in solution, no further agitation is required. Injection solution should not be stored overnight. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic (pH5-7).

Injection Into Chemigation Systems

Inject the proper amount of the ROTAM METHOMYL 29LV solution into the irrigation water flow using a positive displacement injection pump. Injection

should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

Uniform Water Distribution

The irrigation system used for application of ROTAM METHOMYL 29LV must provide for uniform distribution of ROTAM METHOMYL 29LV treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

Equipment calibration

Calibrate the irrigation system and injector before applying ROTAM METHOMYL 29LV. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for cleaners and repairers of application equipment when making adjustments or repairs on the chemigation system when ROTAM METHOMYL 29LV is in the irrigation water.

Required System Safety Devices

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials

that are compatible with pesticides and capable of being fitted with a system interlock.

7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Posting of Areas to be Treated

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes, or any other public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in ENGLISH. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color, which sharply contrasts with their immediate background. At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol shall be the words "PESTICIDE IN IRRIGATED WATER".

Posting for chemigation does not replace other posting and reentry requirements for farm worker safety.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system. End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

Nozzles in the immediate area of control panels, chemical supply tanks, wellheads and system safety devices must be plugged to prevent contamination of these areas.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity**, and **Temperature Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Controlling Droplet Size – Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types and the lowest drift.
- **Boom Length** - For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.
- **Application Height** - Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- **Swath Adjustment** - When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downward edges of the fields, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the

movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. These sprayers are not suitable for applying herbicides. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift..

Adjust deflectors and aiming devices so that spray is only directed into the canopy.

Block off upward pointed nozzles when there is no overhanging canopy.

Use only enough air volume to penetrate the canopy and provide good coverage.

Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Alfalfa	Pea Aphid Lygus Bugs Blotch Leafminer Aphids Egyptian Alfalfa	1 1/2 - 3	7 *	48 hrs

	Weevil Larvae Loopers Beet Armyworm Armyworm Alfalfa Caterpillar Fall Armyworm Western Yellowstriped Armyworm Yellowstriped Armyworm			
	Alfalfa Weevil Larvae	3		
	Variegated Cutworm	3/4 - 3		
	Do not apply to dormant or semi-dormant alfalfa when minimum. daily temp. is 50° F, or lower. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. Use of a wetting agent may improve performance. Make sequential applications at 5 to 7 day intervals or until worm populations are brought below threshold. *Do not apply within 7 days of cutting or allowing livestock to graze.			
Anise (Fennel)	Cabbage Looper	3	7	48 hrs
	Beet Armyworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Apple Ground application only	Apple Aphid Rosy Apple Aphid Tufted Apple Budmoth Green Fruitworm Tarnished Plant Bug	1 1/2 - 3 *	14	72 hrs
	Codling Moth (10-12 day spray intervals)			
	Leafrollers (Fruit-tree, Obliquebanded, Redbanded, Variegated) Lesser Appleworm White Apple Leafhopper Tentiform Leafminer Cutworm	3 *		
	Do not use on Early Macintosh & Wealthy varieties Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop; minimum interval between treatments is 7 days. * Apply in a minimum of 50 gallons of water per acre.			
Asparagus	Beet Armyworm Western Yellowstriped Armyworm Asparagus Beetle Spotted Asparagus Beetle White Cutworm Redbacked Cutworm	1 1/2 - 3	1	48 hrs
	Variegated Cutworm	1 1/2		

	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Avocado	Western Avocado Leafroller Omnivorous Looper	1 1/2 - 3	1	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Barley	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. Use of a wetting agent may improve performance. Make sequential applications at 5 to 7 day intervals or until armyworm and aphid populations are brought below threshold. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when the aphid population is low (<10 adults per stem).			
Beans (Succulent) Including: Kidney Lima Mung Navy Pinto Snap Wax Broad Fava Asparagus Blackeyed peas Cowpeas Chick peas Garbanzo beans Sweet lupine White sweet lupine White lupine Grain lupine	Leafhopper Mexican Bean Beetle	3/4 – 3	Succulent Beans - 3/4 - 1 1/2 pts. -- 1, over 1 1/2 pts. -- 3; 3 - Vines 7 - Hay	48 hrs
	Fall Armyworm Variegated Cutworm	1 1/2		
	Beet Armyworm Corn Earworm Saltmarsh Caterpillar Yellowstriped Armyworm Western Yellowstriped Armyworm Lygus Bugs Thrips Aphids Loopers*	1 1/2 - 3		
	European Corn Borer (Ovicide & Larvicide)-- Initiate when moth flights first appear and-continue preventive treatments at 3-4 day intervals To control eggs and larvae			
	Spotted Cucumber Beetle	3/4 – 1 1/2		

	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Do not use for Loopers in AL & GA.			
Beans (Dry) (Same as Succulent Beans)	(Same as Succulent Beans)	(Same as Succulent Beans)	14 - Dry Beans * 14 - Vines * 14 - Hay *	48 hrs
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV/acre /crop. Do not make more than 10 applications per crop. Do not use for Loopers in AL & GA. *Do not apply within 14 days of cutting.			
Beets (Table)	Imported Cabbageworm	3/4 – 3	0 - roots 10 -tops	48 hrs
	Beet Armyworm Cabbage Looper Diamondback Moth	1 1/2 - 3		
	Cucumber Beetle Variegated Cutworm	1 1/2		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Bermudagrass pasture	Fall Armyworm Armyworm Striped Grass Looper	3/4 - 3	7 - Forage * 3 - Dehydrated Hay **	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * Do not apply within 7 days of feeding forage or allowing livestock to graze. ** Do not apply within 3 days of cutting for hay.			
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1 1/2	3	48 hrs
	Cranberry Fruitworm* Cherry Fruitworm*	1 1/2 – 3		
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	3		
	Blueberry Maggot	3/4–1 1/2		
	Do not apply during bloom. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * For ground use only.			
Broccoli	Loopers Diamondback Moth	1 1/2 - 3**	3	48 hrs
	Imported Cabbageworm	3/4 - 3**		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV/acre/crop Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
	Loopers	1 1/2 – 3 **	3	48 hrs

Brussels Sprouts	Imported Cabbageworm			
	Diamondback Moth			
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Cabbage	Loopers *	1 1/2 - 3 **	1	48 hrs
	Diamondback Moth			
	Fall Armyworm			
	Imported Cabbageworm	3/4 - 3 **		
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. * Do not use for Loopers in AL & GA. ** Add a wetting agent to improve coverage.			
Carrot	Beet Armyworm	1 1/2 - 3	1	48 hrs
	Armyworms			
	Aster Leafhopper			
	Variegated Cutworm	3/4 - 1 1/2		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Cauliflower	Imported Cabbageworm	3/4 - 3 **	3	48 hrs
	Loopers	1 1/2 - 3 **		
	Diamondback Moth			
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Celery	Beet Armyworm	1 1/2 - 3	7	48 hrs
	Aster Leafhopper			
	Loopers	3		
	Variegated Cutworm	1 1/2		
	Armyworms	3/4 - 3		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Chicory	Beet Armyworm	1 1/2 - 3	80	48 hrs
	Variegated Cutworm			
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Chinese Cabbage	Loopers	1 1/2 - 3*	10	48 hrs
	Beet Armyworm			
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Minimum of 25 gallons water per acre by ground or 5 gallons by air.			
Collards (Fresh market only)	Diamondback Moth	1 1/2	10	48 hrs
	Variegated Cutworm			
	Imported Cabbageworm	1 1/2 - 3		

	Beet Armyworm Loopers*			
Do not apply when temp. is less than 50° F. Do not apply when crop is less than 10" tall. Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Loopers in AL & GA.				
Corn (Field, Popcorn & Seed)	Earworm – (Ovicide/Larvicide) Armyworm Fall Armyworm European Corn Borer Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2	21 - Ears 3 - Forage* 21 - Stover*	48 hrs
	Variegated Cutworm, Beet Armyworm	1 1/2		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. *Corn forage is green actively growing plants that are harvested with the ears intact. The plants can be fed directly to animals or used to make silage. Corn stover are the parts of the plant that remain after removal of the grain at full plant maturity. These remaining stalks and leaves can be fed as roughage to animals.			
Corn (Sweet)	Earworm--Whorl as needed	1 – 1 1/2	0 -Ears 3 - Forage 21 - Stover	48 hrs
	Fall Armyworm Armyworm Earworm, (Ovicide/Larvicide) European Corn Borer -Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2		
	Variegated Cutworm Beet Armyworm	1 1/2		
Certain hybrid varieties of sweet corn are susceptible to methomyl injury. Treat a small area to determine crop safety before full scale spraying. Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 28 applications per crop; minimum interval between treatments is 1 day.				
Cotton – All US	Ovicide/Larvicide - Bollworm Tobacco Budworm (Initiate schedule when significant numbers of eggs are	2/5 - 3/4 (see Insect Predator Section)	15	72 hrs

	present Continue at 3 to 5-day intervals while eggs are present and larval control is adequate. If significant larvae survive, use higher rates below.) Lygus Bugs/Plant Bugs (adults and nymphs) Start treatment on low level population for suppression.			
	Cotton Leafworm	3/4 – 1 1/2		
	Cotton Fleahopper (as needed)	2/5 – 3/4		
	Aphids, Thrips	3/4		
East of Rockies only	(Early Season) Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adults and nymphs) Use as occasional spray in regular schedule but not more often than every 10 days.	1 1/2		
	(Late Season) Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adult and nymphs) Up to 3 applications at 3-5 day intervals after desired boll load set on plants.	1 1/2 – 2 1/4		
Texas	Cotton Aphid	3/4 – 2		
West of Rockies only	Larvicide for worms: Bollworm Fall Armyworm Tobacco Budworm Lygus Bugs Beet Armyworm	1 1/2 – 2 1/4		
	Cotton Leafperforator	1 – 2 1/4		
	For applications West of the Rockies, make applications on 3-5 day intervals after desired boll load set on plants. For all applications made to cotton in the United States: Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not graze or feed. Use may redden cotton. If excessive, stop or alternate with other insecticides.			
Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm	1 1/2 - 3	1 1/2 pt. – 1 Over 1 1/2 pt. - 3	48 hrs

	Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm			
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications /crop.			
Eggplant	Green Peach Aphid	3/4 – 3	5	48 hrs
	Tomato Pinworm (Ground Application Only) Beet Armyworm Corn Earworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Endive, Escarole	Beet Armyworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Garlic	Beet Armyworm	1 1/2**	7	48 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. ** Add a wetting agent to improve coverage.			
Grapefruit CA, AZ & HI only	Thrips Fruitree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Horseradish (Ground application Only)	Aphids Thrips	1 1/2	65	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Leafy Green Vegetables: Beet (tops) Dandelions, Kale, Mustard Greens, Parsley, Swiss Chard, Turnip Greens	Beet Armyworm Cabbage Looper* Diamondback Moth Imported Cabbageworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Cabbage Loopers in AL & GA.			
Lemon CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			

Lentils	Western Yellowstriped Armyworm	1 1/2 - 3	21	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Lettuce (Head and Leaf varieties)	Alfalfa Looper	3/4 - 3	3/4-1 1/2 pt. – 7 over 1 1/2 pts. – 10	48 hrs
	Thrips Aphids Beet Armyworm Cabbage Looper Corn Earworm Aster Leafhopper	1 1/2 - 3		
	Variegated Cutworm	1 1/2		
	Lettuce (head varieties) Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. Lettuce (leaf varieties) Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 2 days.			
Melons Including: Cantaloupe Casaba Santa Claus melon Crenshaw melon Honeydew melon Honey balls Persian melon Golden Pershaw melon Mango melon Pineapple melon Snake melon Watermelon	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pts. – 1 day over 1 1/2 pts. – 3 days	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop.			
Mint (Peppermint, Spearmint)	Variegated Cutworm Alfalfa Looper	3	14	48 hrs
	Flea Beetles	2 1/4 - 3		
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Nectarine CA & AZ only	Thrips	1 1/2 – 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			

Oats	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. Use of a wetting agent may improve performance. Make sequential applications at 5 to 7 day intervals or until armyworm and aphid populations are brought below threshold. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			
Onions (Green & Dry Bulb)	Beet Armyworm	1 1/2 - 3**	7 - Green & Dry Bulb Onions	48 hrs
	Thrips* Variegated Cutworm Black Cutworm	3**		
Onions, green Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 5 days. Onions, dry bulb Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum treatment interval between treatments is 5 days. *Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control thrips. Begin applications before thrips populations reach 3-5 thrips per plant. For best results, use the highest rate of ROTAM METHOMYL 29LV and a wetting agent. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. ** Add a wetting agent to improve coverage.				

Oranges CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Fruittree Leafroller Beet Armyworm Citrus Cutworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Peaches	Catfacing Insects (Plant Bugs and Stink Bugs) - begin at petal fall and continue in cover sprays at 7 to 10-day intervals Oriental Fruit Moth* -begin at petal fall; use trapping devices and frequent field inspection to determine need for treatment. Continue treatment in cover sprays and alternate with residual- type insecticides registered for this use. Green Peach Aphid	3 pt (or 3/4 pt per 100 gal up to 400 gal per acre)	4	4 days
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. * Oriental Fruit Moth (Ground Application Only).			
Peanuts	Corn Earworm* Potato Leafhopper Fall Armyworm	3/4 - 3	21	48 hrs
	Beet Armyworm	1 1/4 - 3		
	Green Cloverworm Velvetbean Caterpillar Cabbage Looper Soybean Looper ** Thrips Granulate Cutworm	1 1/2 - 3		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not feed treated vines. * ROTAM METHOMYL 29LV has ovicidal and larvicidal control on corn earworm. **Soybean Looper is difficult to control. Do not apply to worms greater than 1/2" long. Use higher rate for severe infestations.			
Pears Northeast only	Green Fruitworm Oblique banded Leafroller	1 1/2 - 3*	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Apply in a minimum of 50 gallons of water per acre.			
Peas (succulent) Including: Pigeon peas Chick peas Garbanzo beans	Alfalfa Looper Cabbage Looper* Pea Aphid Beet Armyworm Saltmarsh Caterpillar	1 1/2 - 3	1 - Peas 5 - Forage 14 - Hay	48 hrs

Dwarf peas Garden peas Green peas English Peas Field peas Edible pod peas	Variegated Cutworm			
	Alfalfa Caterpillar	3/4 - 3		
	Armyworm			
	Green Cloverworm			
	<p>Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop . Do not make more than 6 applications per crop; minimum interval between treatments is 3 days.</p> <p>* Do not use for Cabbage Loopers in AL & GA.</p> <p>Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p>Use of a wetting agent may improve performance.</p> <p>Make sequential applications at 5 to 7 day intervals or until worm populations are brought below threshold.</p>			
Pecans Southeast only	Aphids	1 1/2 - 3	30	48 hrs
	<p>Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 7 applications per crop.</p>			
Peppers Including: Bell Hot Pimentos Sweet	Loopers	1 1/2 - 3	3	48 hrs
	Beet Armyworm			
	Green Peach Aphid			
	Armyworm			
	Fall Armyworm			
	Variegated Cutworm	3/4 - 1 1/2		
	European Corn Borer	3		
	<p>Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.</p>			
Pomegranates	Omnivorous Leafroller	3	14	48 hrs
	<p>Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.</p>			
Potato	Tuberworm*	1 1/2 - 3	6	48 hrs
	Loopers			
	Aphids			
	Beet Armyworm			
	Leafhoppers			
	Fall Armyworm			
	Variegated Cutworm	1 1/2		
	Flea Beetles			
	<p>Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.</p>			

	<p>Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p>Use of a wetting agent may improve performance. Make sequential applications at 5 to 7 day intervals or until insect populations are brought below threshold.</p> <p>*Repeat applications of ROTAM METHOMYL 29LV on a 5-7 day schedule, or longer as needed, to control tuber worm populations. An application schedule of effective insecticides with different modes of action may be needed to keep foliar feeding larval populations as low as possible prior to harvest to reduce the risk of larval damage to the tubers. Failure to adequately control tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage.</p>			
Rye	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs
	<p>Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.</p> <p>Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p>Use of a wetting agent may improve performance. Make sequential applications at 5 to 7 day intervals or until armyworm and aphid populations are brought below threshold.</p> <p>*Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.</p> <p>**Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).</p>			
Sorghum Including: Sudangrass (except Sweet Sorghum)	Sorghum Webworm Sorghum Midge --Apply when 50% bloom and 3-5 days later if needed. Fall Armyworm (Budworm) Beet Armyworm Corn Earworm Armyworm	1 1/2* 3/4 - 1 1/2*	14**	48 hrs
	<p>Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.</p> <p>* Minimum of 10 gallons per acre by ground or 2 gallons per acre by air.</p> <p>** Do not apply within 14 days of feeding forage or cutting for hay.</p>			
Soybeans	Green Cloverworm Velvetbean Caterpillar Mexican Bean Beetle Corn Earworm - Light to moderate infestations	2/5 - 3/4 (see Insect Predator section)	14 - Soybeans 3 - Forage 12 - Hay	48 hrs
	Corn Earworm - Moderate to severe infestations	3/4 - 1 1/2		

	Soybean Aphid	1/2 – 1		
	Beet Armyworm Salt Marsh Caterpillar Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper - Light to moderate infestations	3/4 – 1		
	Silver Spotted Skipper - Moderate to severe infestations	1 – 1 1/2		
	Do not apply more than 4.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			
Spinach	Alfalfa Looper Cabbage Looper Beet Armyworm Fall Armyworm	1 1/2 - 3	7	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply when minimum daily temp. is 32° F, or lower. Do not apply to seedlings less than 3" diameter. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Sugar Beet	Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstripe Armyworm*	3/4 - 3	30 - Tops 21- Roots	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. *Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control beet armyworm, aphids and western yellowstriped armyworm. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.			
Summer Squash* Including: Crookneck squash Straightneck squash Scallop squash Vegetable marrow Spaghetti squash Hytan Cucuzza Hechima Chinese okra Bitter melon Balsam pear Balsam apple	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pt. -- 1 day over 1 1/2 pt.-- 3 days	48 hrs
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop.			

Chinese Cucumber	* Fruit of the Gourd (Cucurbitaceae) family that are consumed when immature, 100% of the fruit is edible cooked or raw, once picked cannot be stored, has a soft rind which is easily penetrated and if seeds were harvested they would not germinate			
Tangelo, Tangerine CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Tobacco (Except shade)	Flea Beetle Hornworm	3/4 – 1 1/2	5 - Flue cured 14 - Air or fire cured	48 hrs
	Loopers Aphids Tobacco Budworm Fall Armyworm	1 1/2		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.			
Tomato (Including Tomatillos*)	Tomato Fruitworm Aphids Hornworm Loopers Beet Armyworm Southern Armyworm Pinworm Armyworm Fall Armyworm	1 1/2 - 3	1	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 16 applications per crop. * For tomatillos do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.			
Turf (For use on sod farms only)	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	3 (1.1 fl. ozs. per 1000 sq. ft.)		48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Do not graze or feed.			
Wheat	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.			

Do not make more than 4 applications per crop.

Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.

Use of a wetting agent may improve performance. Make sequential applications at 5 to 7 day intervals or until armyworm and aphid populations are brought below threshold.

*Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.

**Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Storage and Disposal Continued

CONTAINER HANDLING:

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container.

Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container.

Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. ^{Tip} container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Storage and Disposal Continued

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers: Refillable container. Refilling Container: Refill this container with ROTAM METHOMYL 29LV containing methomyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see proceeding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not transport if container is damaged or leaking.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Rotam Agrochemical Company Limited or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Rotam Agrochemical Company Limited and Seller harmless for any claims relating to such factors.

Rotam Agrochemical Company Limited warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Rotam Agrochemical Company Limited, and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW ROTAM LTD MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law, Rotam Agrochemical Company Limited or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ROTAM AGROCHEMICAL COMPANY LIMITED AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ROTAM AGROCHEMICAL COMPANY LIMITED OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Rotam Agrochemical Company Limited and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Rotam Agrochemical Company Limited.

Manufactured by:
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Registered: [TBA]

[Back Page of Booklet - remains on the container when booklet is removed]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP

1A

INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<i>Active Ingredient</i>	<i>By Weight</i>
---------------------------------	-------------------------

Methomyl

(S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
--	-----

<i>Other Ingredients</i>	71%
---------------------------------	-----

TOTAL	100%
-------	------

Contains Methanol

EPA Reg. No. 83100 - 27

EPA Est. No.: 5905-GA-01

KEEP OUT OF REACH OF CHILDREN

DANGER

POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Refer to inside label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, Engineering Controls Statements, Environmental Hazards and Directions For Use.

FIRST AID

(N-Methyl Carbamate insecticide)

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact the National Poison Control Center 24-hr Emergency Hotline at: 1-800-222-1222.

**HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**
KEEP OUT OF REACH OF CHILDREN
DANGER POISON



PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Restricted Use Pesticide due to toxicity categories. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Contains Methanol. Methanol may cause blindness. Causes irreversible eye damage. May be fatal if swallowed or if inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Do not breathe spray mist. Avoid contact with skin.

Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category C). For handling activities, applicators must wear a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation. The product shows potential explosive properties when heated to elevated temperatures.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Storage and Disposal Continued

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container.

Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures.

^{Tip} container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Storage and Disposal Continued

All Refillable Containers: Refillable container. Refilling Container: Refill this container with ROTAM METHOMYL 29LV containing methomyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting.

Disposing of Container: Do not reuse this container for any other purpose other than refilling (see proceeding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not transport if container is damaged or leaking.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Registered: (TBA)

**Net Contents
Gallons
TBA**



Rotam Methomyl Labels 83100-27 & 83100-28

t
Frank Sobotka o Thomas Harris
:

04/04/2011 01:09 PM

I revised the two end use labels per your instructions over the weekend and am sending for your review.
See Attached.

Dr. Frank E. Sobotka, Senior Partner
IPM Resources LLC
4032 Crockers Lake Blvd.
Suite 818
Sarasota, FL 34238
PH: 215 497-9501
FX: 215 497-9502




083100-0027.20110404.Primary Lbl.pdf



083100-0028.20110404.Primary Lbl.pdf



detailed review of 83100-ET 

Thomas Harris o Frank Sobotka
:

04/01/2011 12:13 PM

Dr. Sobotka,

Attached is a detailed review of 83100-ET. Two versions: print image (just print on color printer; easiest way to see comments); "live" (can use to copy/paste large blocks of text in comments)
Also attached is Dupont 352-384; you'll need this to copy/paste then edit Storage Disposal. If you could get me a revised label by Monday that would be great. Looking to complete this on Tue 4/5 PRIA due date.



print image (just print) 083100-000ET.20110308.29LV Primary.EPA COMMENTS.print image.pdf



"live" 083100-000ET.20110308.29LV Primary.EPA COMMENTS.pdf

Dupont (just missing front two pages to make compare line up better:



edited.000352-00384.20101208.LANNATE LV D-1653 111810.pdf

I'll do -EI next but same general comments may apply although exact tox text and chemistry text may be different.

Tom Harris
EPA/OCSPP/OPP/RD/IRB
voice: (703) 308-9423
fax: (703) 308-0029
harris.thomas@epa.gov
visit <http://www.epa.gov/pesticides>

[Front Container Label – Optional if Booklet is used as front container label]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP 1A INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

Active Ingredient By Weight

Methomyl
(S-methyl-N-[(methylcarbamoyl)
oxy]thioacetimidate) 29%

Inert Ingredients 71%

TOTAL 100%

Insert "contains methanol"

EPA Reg. No. 83100-TBA

EPA Est. No.: TBA

KEEP OUT OF REACH OF CHILDREN
WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional Precautionary Statements on inside booklet and back panel of container and Directions for Use on inside booklet.

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons

Summary of Comments on [Directions for use booklet]

Page: 1

Author: tharri02 Subject: Callout Date: 4/1/2011 10:31:44 AM

Insert "contains methanol"

Author: tharri02 Subject: Replacement Text Date: 4/1/2011 10:16:34 AM

REPLACE with:

"other ingredients"

Author: tharri02 Subject: Replacement Text Date: 4/1/2011 10:17:27 AM

REPLACE with:

"DANGER skull/crossbones POISON

PELIGRO"

in red

Author: tharri02 Date: 4/4/2011 5:44:29 PM

083100-000ET.20110308.29LV Primary.EPA COMMENTS.pdf

083100-000ET.20110308.29LV Primary.EPA COMMENTS.pdf

[Booklet Cover]

PULL HERE TO OPEN▶

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP 1A INSECTICIDE

Rotam Methomyl 29SL Insecticide

KEEP OUT OF REACH OF CHILDREN

WARNING

move ingredient
section from next
page to here

usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

(N-Methyl Carbamate Insecticide)

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

move poisoning
symptoms and
note to physician to
here at end of first
aid

Page: 2

Author: tharri02 Subject: Replacement Text Date: 4/1/2011 10:20:03 AM
REPLACE with:

"DANGER skull/crossbones POISON
PELIGRO"

in red

Author: tharri02 Subject: Callout Date: 4/1/2011 10:33:31 AM
move ingredient section from next page to here

Author: tharri02 Subject: Callout Date: 4/1/2011 10:35:24 AM
move poisoning symptoms and note to physician to here at end of first aid

[Booklet Cover Continued]

insert:
"DANGER skull/crossbones POISON
PELIGRO" in red

Page: 3

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING, FATAL IF SWALLOWED. CONTAINS METHANOL. MAY CAUSE BLINDNESS. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.

Do not get in eyes or on clothing. Wear protective eyewear. Harmful if inhaled or absorbed through skin. Avoid contact with skin or breathing spray mist. Wash hands thoroughly with soap and water after handling.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on the ROTAM METHOMYL 29LV label and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg, intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

Refer to inside for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, Engineering Controls, Environmental Hazards and Directions for Use.

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

Active Ingredient	By Weight
Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
Inert Ingredients	71%
TOTAL	100%

insert "contains methanol"

EPA Reg. No. 83100 - TBA EPA Est. No.: TBA

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons

Author: thari02 Subject: Text Box Date: 4/1/2011 10:22:22 AM

insert:
"DANGER skull/crossbones POISON
PELIGRO" in red

Author: thari02 Subject: Pencil Date: 4/1/2011 10:21:50 AM

Author: thari02 Subject: Pencil Date: 4/1/2011 10:22:12 AM

Author: thari02 Subject: Replacement Text Date: 4/1/2011 10:46:25 AM
REPLACE with:

"CONTAINS METHANOL. METHANOL MAY CAUSE BLINDNESS. CAUSES IRREVERSIBLE EYE DAMAGE. MAY BE FATAL IF SWALLOWED OR INHALED. Harmful if absorbed through skin. Do not get in eyes or on clothing. Do not breathe spray mist. Avoid contact with skin. Wash hands thoroughly with soap and water after handling."

Author: thari02 Subject: Pencil Date: 4/1/2011 10:51:15 AM

Author: thari02 Subject: Text Box Date: 4/1/2011 10:36:06 AM

move to end of first aid

Author: thari02 Subject: Callout Date: 4/1/2011 10:52:33 AM

adjust as needed

Author: thari02 Subject: Text Box Date: 4/1/2011 10:34:14 AM

move ingredients to previous page

Author: thari02 Subject: Pencil Date: 4/1/2011 10:33:55 AM

Author: thari02 Subject: Replacement Text Date: 4/1/2011 10:28:10 AM
REPLACE with:

"other ingredients"

Author: thari02 Subject: Callout Date: 4/1/2011 10:32:04 AM

insert "contains methanol"

move to end of
first aid

move ingredients
to previous page

adjust as needed

[Inside Booklet page 2]

Table of Contents

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First Aid
Precautionary Statements
Directions for Use
 Agricultural Use Requirements
General Information
 Scouting
 Insect Predators
 Resistance
 Compatibility
Integrated Pest Management
Spray Preparation
Application
Spray Drift Management
Crop/Rate Tables
Storage and Disposal
Notice of Warranty

[move table of
contents to after
Precautionary
Statements but
before Directions
for Use; delete
references to first
aid and prec.
stmts]
could list individual
crops, if desired

Page: 4

Author: tharn02 Subject: Text Box Date: 4/1/2011 11:34:19 AM

[move table of contents to after Precautionary Statements but before Directions for Use; delete references to first aid and prec. stmts]
could list individual crops, if desired

PRECAUTIONARY STATEMENTS (Continued)
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category B on an EPA chemical-resistance category.

Applicators and others exposed to the diluted spray solution must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves such as barrier laminate or butyl rubber.
- Shoes plus socks.
- Protective eyewear.

Mixers, loaders, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:

- Long sleeve shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber.
- Socks and chemical resistant footwear.
- Protective eyewear.

Respirator as outlined below:

Chemical-resistant apron.

For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-24C), or a NIOSH approved respirator with any R, P, or HE prefilter. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other

ENGINEERING CONTROL STATEMENTS

Human flaggers must be in enclosed cabs.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must not assist in the mixing and loading operations.

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Author: tharri02	Subject: Cross-Out	Date: 4/1/2011 10:25:56 AM
don't need signal word here since this is just precautionary section continued		
Author: tharri02	Subject: Cross-Out	Date: 4/1/2011 11:35:31 AM
DELETE		
no data submitted to support		
reminder: Rotam not same tox as Dupont		
Author: tharri02	Subject: Inserted Text	Date: 4/1/2011 10:58:44 AM
insert		
"applicators"		
Author: tharri02	Subject: Replacement Text	Date: 4/1/2011 10:54:44 AM
REPLACE with:		
"natural rubber or other materials in EPA category C."		
Author: tharri02	Subject: Cross-Out	Date: 4/1/2011 10:55:26 AM
DELETE		
Author: tharri02	Subject: Cross-Out	Date: 4/1/2011 10:55:58 AM
DELETE		
start Respirator with cap letter		
Author: tharri02	Subject: Cross-Out	Date: 4/1/2011 10:57:14 AM
delete		
Author: tharri02	Subject: Inserted Text	Date: 4/1/2011 10:56:46 AM
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USER SAFETY RECOMMENDATIONS

USERS SHOULD:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

← add: "Remove and wash contaminated clothing before reuse."

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation.

← insert: "The product shows potential explosive properties when heated to elevated temperatures."

← insert Table of contents here at start of DFU, if used

DIRECTIONS FOR USE Restricted Use Pesticide

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Author: tharri02 Subject: Callout Date: 4/1/2011 11:04:10 AM

add: "Remove and wash contaminated clothing before reuse."

Author: tharri02 Subject: Callout Date: 4/1/2011 11:02:05 AM

insert: "The product shows potential explosive properties when heated to elevated temperatures."

Author: tharri02 Subject: Callout Date: 4/1/2011 11:02:52 AM

insert Table of contents here at start of DFU, if used

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). REI Summary: REI grapes = 7 day; REI peaches = 4 day; REI apple, cotton, grapefruit, lemon, nectarine, orange, tangelo, tangerine = 3 day; all other WPS uses = 48 hour REI.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls.

Chemical-resistant gloves, such as barrier laminate or butyl rubber.

Shoes plus socks.

Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Notify workers of the application to grapes by warning them orally and by posting warning signs at entrances to treated areas.

GENERAL INFORMATION

Chemigation: Overhead sprinkler chemigation is allowed for use in alfalfa, barley, succulent and dry beans, oats, onions, succulent peas, potatoes, rye, sugar beets, sweet corn and wheat. Drip chemigation is allowed for onions. See Federal Supplemental labeling for overhead sprinkler chemigation directions for use in sweet corn, succulent peas and succulent and dry beans; and for directions for use for drip chemigation in onions. Refer to supplemental, or Special Local Need (SLN) labeling or the crop specific sections of this label for use directions for chemigation. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN or this product label.

move to
chemigation
section

Do not formulate this product into other End-use products without written permission from Rotam.

ROTAM METHOMYL 29LV insecticide should be used only in accordance with directions for use on this label or in separate Rotam supplemental labeling. Rotam will not be responsible for use of the product in a manner not specified by Rotam in the product's labeling and User assumes all risk for such use.

ROTAM METHOMYL 29LV is a water soluble liquid that is applied by foliar application to control many important insect pests. ROTAM METHOMYL 29LV is mixed with water for application.

Pilots must not assist in the mixing and loading operations.

Do not apply by ground equipment within 25 feet, or by air within 100 feet of

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DELETE		
Author: tharri02	Subject: Pencil	Date: 4/1/2011 11:08:07 AM
Author: tharri02	Subject: Replacement Text	Date: 4/1/2011 11:06:35 AM
replace with:		
"APPLICATION INFORMATION" or just leave out. do not use word "general"		
Author: tharri02	Subject: Cross-Out	Date: 4/1/2011 11:07:44 AM
DELETE	app info; you don't have these; they're on Dupont SLNs	
Author: tharri02	Subject: Text Box	Date: 4/1/2011 11:08:28 AM
move to chemigation section		

lakes, reservoirs, rivers, estuaries, commercial fish ponds and natural, permanent streams, marshes or natural, permanent ponds. Increase the buffer zone to 450 feet from the above aquatic areas when ultra low volume application is made.

Hand-held equipment is prohibited for applications to crops. This product must be applied to crops only with mechanical ground, overhead sprinkler chemigation or aerial application equipment.

Use only in commercial and farm plantings. Not for use in home plantings. Not for use during any period after a commercial crop site is opened for public entry as a "U-Pick", "Pick Your Own" or similar operation; in no case shall preharvest applications be made after first public entry. The restricted entry interval and preharvest interval for the crop stated elsewhere on this label must be followed.

SCOUTING

Monitor insect populations to determine whether or not there is a need for application of ROTAM METHOMYL 29LV based on locally determined economic thresholds. More than one treatment of ROTAM METHOMYL 29LV may be required to control a population of pests.

ok here but would be better following IPM section

BENEFICIAL ARTHROPODS

ROTAM METHOMYL 29LV at rates of 2/5 to 3/4 pint per acre helps conserve certain beneficials, including big-eyed bugs, damsel bugs, flower bugs and spiders in cotton and soybeans. While these beneficials cannot be relied upon to control pests, they are of potential value and should be monitored along with pests in pest management programs on these crops.

RESISTANCE MANAGEMENT

For resistance management, ROTAM METHOMYL 29LV insecticide is a group 1A insecticide. Repeated and exclusive use of ROTAM METHOMYL 29LV or other group 1A insecticides may lead to the build-up of resistant strains of insects in some crops. Not all members of this group have been shown to be cross-resistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different sub-groups within this group may be an acceptable part of an integrated pest management program.

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below the economic threshold. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode-of-action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of

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Author: tharri02 Subject: Pencil Date: 4/1/2011 11:09:14 AM

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control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

INTEGRATED PEST MANAGEMENT

This product should be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying ROTAM METHOMYL 29LV.

Fill spray tank 1/4 to 1/2 full of water. Add ROTAM METHOMYL 29LV directly to spray tank. Mix thoroughly. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

Compatibility — Since formulations may be changed and new ones introduced, in this situation users can premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.) before applying the product. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use ROTAM METHOMYL 29LV with Bordeaux mixture (copper sulfate and hydrated lime), Du Ter triphenyltin hydroxide, lime sulfur, Rayplex iron nor in highly alkaline solutions. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

Tank Mix Sequence — Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

1. Water soluble bags.
2. Water dispersible granules
3. Wettable powders
4. Water based suspension concentrates
5. ROTAM METHOMYL 29LV and other water soluble concentrates
6. Oil based suspension concentrates
7. Emulsifiable concentrates
8. Adjuvants, surfactants, oils, soluble fertilizers, and drift retardants. Follow local practice and manufacturer's recommendation.

APPLICATION

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Follow-up treatments of ROTAM METHOMYL 29LV should be applied, as needed, to keep pest populations within threshold limits. On most crops, ROTAM

This page contains no comments

METHOMYL 29LV should be applied at 5 to 7 day intervals to maintain control. Refer to crop specific directions for use in the crop tables for more specific information on treatment intervals.

Use sufficient water to obtain thorough, uniform coverage. Since ROTAM METHOMYL 29LV is a fast acting contact insecticide, best results follow direct spraying of the target insect.

For aerial, use a minimum of 2 gals. per acre (gpa) except 10 gpa for grapes, peaches, and nectarines; 15 gpa for oranges, lemons, grapefruit, tangelos and tangerines.

ROTAM METHOMYL 29LV is recommended for use as a low volume aerial spray 0.53 gpa (2L) for cotton* and soybeans* and 1 gpa for the crops listed below providing the following conditions are met:

- equipment is adjusted to distribute spray uniformly over the spray swath,
- wind conditions and other factors such as temperature and humidity are such
- that the spray is delivered to the target area,
- local regulations do not prohibit low-volume aerial sprays,
- use rates are applied as directed on the package label or supplemental labeling for the following crops:

Alfalfa	Celery	Peas (succulent)
Anise	Collards	Peppermint
Asparagus	Corn	Peppers
Barley	Cotton	Potato
Beans	Cucumber	Rye
Broccoli	Lettuce	Soybean
Brussels sprouts	Melons	Spinach
Cabbage	Mint	Sugar beet
Carrot	Oats	Summer Squash
Cauliflower	Peanuts	Wheat

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Hereafter, use the lowest rate possible to maintain control.

* Not Registered for aerial application in a diluted volume of less than 1 gal in CA.

SPRAY TANK CLEANOUT

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

CHEMIGATION

Instructions for the Use of ROTAM METHOMYL 29LV on Alfalfa, Barley, Oats, Green and Dry Bulb Onions, Potatoes, Rye, Sugar Beets and Wheat Using Overhead Sprinkler Chemigation

Overhead chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical chemigation applications are more dilute than ground or aerial applications. For best results, it is recommended to keep the concentration of ROTAM METHOMYL 29LV as high as possible in the application. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre.

ROTAM METHOMYL 29LV is most active as a contact insecticide, although it does also have activity via ingestion of treated plants. For best results, applications of ROTAM METHOMYL 29LV should take place when the insects are active and most likely to come into direct contact with the application.

Types of Irrigation Systems:

ROTAM METHOMYL 29LV may be applied through overhead sprinkler irrigation systems for control of various pests. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens. Do not apply ROTAM METHOMYL 29LV through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN, or this product label.

General Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of ROTAM METHOMYL 29LV in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of ROTAM METHOMYL 29LV into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of ROTAM METHOMYL 29LV. Once in solution, no further agitation is required. Injection solution should not be stored overnight. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic (pH5-7).

Injection into Chemigation Systems

Inject the proper amount of the ROTAM METHOMYL 29LV solution into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

Uniform Water Distribution

The irrigation system used for application of ROTAM METHOMYL 29LV must provide for uniform distribution of ROTAM METHOMYL 29LV treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

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Equipment calibration

Calibrate the irrigation system and injector before applying ROTAM METHOMYL 29LV. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for cleaners and repairers of application equipment when making adjustments or repairs on the chemigation system when ROTAM METHOMYL 29LV is in the irrigation water.

Required System Safety Devices

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

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Posting of Areas to be Treated

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes, or any other public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in ENGLISH. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color, which sharply contrasts with their immediate background. At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol shall be the words "PESTICIDE IN IRRIGATED WATER".

Posting for chemigation does not replace other posting and reentry requirements for farm worker safety.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system. End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

Nozzles in the immediate area of control panels, chemical supply tanks, wellheads and system safety devices must be plugged to prevent contamination of these areas.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

This page contains no comments

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See **Wind, Temperature and Humidity**, and **Temperature Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types and the lowest drift.
- **Boom Length** - For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift

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- without reducing swath width.
- **Application Height** - Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- **Swath Adjustment** - When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downward edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind.

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However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. These sprayers are not suitable for applying herbicides. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

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Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Alfalfa	Pea Aphid Lygus Bugs Blotch Leafminer Aphids Egyptian Alfalfa Weevil Larvae Loopers Beet Armyworm Armyworm Alfalfa Caterpillar Fall Armyworm Western Yellowstriped Armyworm Yellowstriped Armyworm	1 1/2 -- 3	7 *	48 hrs
	Alfalfa Weevil Larvae	3		
	Variegated Cutworm	3/4 - 3		
	Do not apply to dormant or semi-dormant alfalfa when minimum, daily temp. is 50° F, or lower.			

	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.				
Anise (Fennel)	Cabbage Looper			hrs	
	Beet Armyworm	1 1/2 - 3			
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.				
Apple Ground application only	Apple Aphid	1 1/2 - 3 *	14	72 hrs	
	Rosy Apple Aphid				
	Tufted Apple Budmoth				
	Green Fruitworm				
	Tarnished Plant Bug				
	Codling Moth (10-12 day spray intervals)				
	Leafrollers (Fruit-tree, Obliquebanded, Redbanded, Variegated) Lesser Appleworm White Apple Leafhopper Tentiform Leafminer Cutworm	3 *			
	Do not use on Early Macintosh & Wealthy varieties Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop; minimum interval between treatments is 7 days. * Apply in a minimum of 50 gallons of water per acre.				
Asparagus	Beet Armyworm, Western Yellowstriped Armyworm Asparagus Beetle Spotted Asparagus Beetle White Cutworm Redbacked Cutworm	1 1/2 - 3	1	48 hrs	
	Variegated Cutworm				1 1/2
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.				
	Western Avocado Leafroller Omnivorous Looper	1 1/2 - 3	1		48 hrs
Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.					
Barley	Armyworms Cereal Leaf Beetle*	3/4 - 1 1/2	7	48 hrs	
	Aphids**				
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.				

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<p>Do not make more than 4 applications per crop.</p> <p>Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p>*Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.</p> <p>**Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).</p>							
Beans (Succulent) Including: Kidney Lima Mung Navy Pinto Snap Wax Broad Fava Asparagus Blackeyed peas Cowpeas Chick peas Garbanzo beans Sweet lupine White sweet lupine White lupine Grain lupine	Leafhopper Mexican Bean Beetle	3/4 – 3	Succulent Beans - 3/4 - 1 1/2 pts. – 1, over 1 1/2 pts. – 3; 3 - Vines 7 - Hay	48 hrs			
	Fall Armyworm Variegated Cutworm	1 1/2					
	Beet Armyworm Corn Earworm Saltmarsh Caterpillar, Yellowstriped Armyworm Western Yellowstriped Armyworm Lygus Bugs Thrips Aphids Loopers*	1 1/2 - 3					
	European Corn Borer (Ovicide & Larvicide)-- Initiate when moth flights first appear and-continue preventive treatments at 3-4 day intervals To control eggs and larvae						
	Spotted Cucumber Beetle	3/4 – 1 1/2					
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Do not use for Loopers in AL & GA.						
	Beans (Dry) (Same as Succulent Beans)	(Same as Succulent Beans)			(Same as Succulent Beans)	14 - Dry Beans * 14 - Vines * 14 - Hay *	48 hrs
		Do not apply more than 15 pints of ROTAM METHOMYL 29LV/acre /crop. Do not make more than 10 applications per crop. Do not use for Loopers in AL & GA. *Do not apply within 14 days of cutting.					
	Beets (Table)	Imported Cabbageworm			3/4 – 3	0 - roots 10 -tops	48 hrs
Beet Armyworm Cabbage Looper Diamondback Moth		1 1/2 - 3					

	Cucumber Beetle Variegated Cutworm	1 1/2		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Bermudagrass pasture	Fall Armyworm Armyworm Striped Grass Looper	3/4 - 3	7 - Forage * 3 - Dehydrated Hay **	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * Do not apply within 7 days of feeding forage or allowing livestock to graze. ** Do not apply within 3 days of cutting for hay.			
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1 1/2	3	48 hrs
	Cranberry Fruitworm* Cherry Fruitworm*	1 1/2 - 3		
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	3		
	Blueberry Maggot	3/4-1 1/2		
	Do not apply during bloom. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * For ground use only.			
Broccoli	Loopers Diamondback Moth	1 1/2 - 3**	3	48 hrs
	Imported Cabbageworm	3/4 - 3**		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV/acre/crop Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Brussels Sprouts	Loopers Imported Cabbageworm, Diamondback Moth	1 1/2 - 3 **	3	48 hrs
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Cabbage	Loopers * Diamondback Moth Fall Armyworm	1 1/2 - 3 **	1	48 hrs
	Imported Cabbageworm	3/4 - 3 **		
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. * Do not use for Loopers in AL & GA.			
Carrot	Beet Armyworm Armyworms Aster Leafhopper	1 1/2 - 3	cabbage insert: "Add a wetting agent to improve coverage."	

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	Variegated Cutworm	3/4 – 1 1/2		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Cauliflower	Imported Cabbageworm	3/4 – 3 **	3	48 hrs
	Loopers	1 1/2 – 3 **		
	Diamondback Moth			
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Celery	Beet Armyworm	1 1/2 – 3	7	48 hrs
	Aster Leafhopper			
	Loopers	3		
	Variegated Cutworm	1 1/2		
	Armyworms	3/4 – 3		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Chicory	Beet Armyworm	1 1/2 – 3	80	48 hrs
	Variegated Cutworm			
	Leafhoppers			
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Chinese Cabbage	Loopers	1 1/2 – 3*	10	48 hrs
	Beet Armyworm			
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Minimum of 25 gallons water per acre by ground or 5 gallons by air.			
Collards (Fresh market only)	Diamondback Moth	1 1/2	10	48 hrs
	Variegated Cutworm			
	Imported Cabbageworm	1 1/2 – 3		
	Beet Armyworm			
	Loopers*			
	Do not apply when temp. is less than 50° F Do not apply when crop is less than 10" tall. Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Loopers in AL & GA.			
Corn (Field, Popcorn & Seed)	Earworm – (Ovicide/Larvicide)	3/4 – 1 1/2	21 - Ears 3 - Forage* 21 - Stover*	48 hrs
	Armyworm			
	Fall Armyworm			
	European Corn Borer			
	Ears 1-3 days or as needed			
Corn Rootworm (adult beetles)				
Flea Beetles				
Picnic Beetles				
Aphids				
	Variegated Cutworm, Beet Armyworm	1 1/2		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop.			

Author: tharn02 Subject: Text Box Date: 4/1/2011 11:13:53 AM

put line across row at bottom of corn to separate from cotton

Author: tharn02 Subject: Pencil Date: 4/1/2011 11:14:00 AM

Author: tharn02 Subject: Pencil Date: 4/1/2011 11:13:15 AM

put line across row
at bottom of corn to
separate from
cotton

Do not make more than 10 applications per crop. *Corn forage is green actively growing plants that are harvested with the ears intact. The plants can be fed directly to animals or used to make silage. Corn stover are the parts of the plant that remain after removal of the grain at full plant maturity. These remaining stalks and leaves can be fed as roughage to animals.			
Corn (Sweet) Cotton - All US	Earworm-Whorl as needed	1 - 1 1/2	0 -Ears 3 - Forage 21 - Stover
	Fall Armyworm	3/4 - 1 1/2	
	Armyworm		
	Earworm, (Ovicide/Larvicide)		
	European-Corn Borer		
	-Ears 1-3 days or as needed		
	Corn Rootworm (adult beetles)		
	Flea Beetles		
	Picnic Beetles		
	Aphids		
East of Rockies only	Variegated Cutworm	1 1/2	
	Beet Armyworm		
	Certain hybrid varieties of sweet corn are susceptible to methomyl injury. Treat a small area to determine crop safely before full scale spraying. Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 28 applications per crop; minimum interval between treatments is 1 day.		
	Ovicide/Larvicide - Bollworm	2/5 - 3/4 (see insect Predator Section)	15
	Tobacco Budworm		72 hrs
	-Initiate schedule when significant numbers of eggs are present Continue at 3 to 5-day intervals while eggs are present and larval control is adequate. If significant larvae survive, use higher rates below.		
	Lygus Bugs/Plant Bugs (adults and nymphs) Start treatment on low level Population for suppression.		
	Cotton Leafworm	3/4 - 1 1/2	
	Cotton Fleahopper (as needed)	2/5 - 3/4	
	Aphids, Thrips	3/4	
	(Early Season)	1 1/2	
	Bollworm		
	Tobacco Budworm		
	Beet Armyworm		
	Cotton Leafperforator		
	Fall Armyworm		
	Lygus Bugs/Plant Bugs (adults and nymphs) Use as occasional spray in regular schedule but not more often than every 10 days.		
	(Late Season)	1 1/2 - 2 1/4	

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	Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adult and nymphs) Up to 3 applications at 3-5 day intervals after desired boll load set on plants.			
Texas	Cotton Aphid	3/4 – 2		
West of Rockies only	Larvicide for worms:	1 1/2 – 2 1/4		
	Bollworm Fall Armyworm Tobacco Budworm Lygus Bugs Beet Armyworm			
	Cotton Leafperforator	1 – 2 1/4		
For applications West of the Rockies, make applications on 3-5 day intervals after desired boll load set on plants. For all applications made to cotton in the United States: Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not graze or feed. Use may redder cotton. If excessive, stop or alternate with other insecticides.				
Cucumber	Loopers	1 1/2 - 3	1 1/2 pt. – 1 Over 1 1/2 pt. - 3	48 hrs
	Tobacco Budworm			
	Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm			
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications /crop.			
Eggplant	Green Peach Aphid	3/4 – 3	5	48 hrs
	Tomato Pinworm (Ground Application Only) Beet Armyworm Corn Earworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Endive, Escarole	Beet Armyworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Garlic	Beet Armyworm	1 1/2**	7	48 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. ** Add a wetting agent to improve coverage.			

Grapefruit CA, AZ & HI only	Thrips Fruitree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Grapes East of Rockies only	Grape Berry Moth (apply pre- & post-bloom & repeat at 10-14 day intervals or as needed) Leafhoppers	1 1/2 - 3	1 - Fresh & Raisin 14 - Wine Grapes	7 days
All U.S.	Omnivorous Leafroller Grape Leafhopper Orange Tortrix			
West of Rockies only	Saltmarsh Caterpillar Leafhoppers*			
	Climbing Cutworm (Treat infestation and repeat at 7-14 day intervals as needed)	3		
CA only	Grape Leaf Skeletonizer*	1 1/2 - 3		
	Thrips	1 1/2 - 3		
For all applications made to grapes in the United States: Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop. * Leafhoppers & Grape Leaf Skeletonizer (Ground Application Only).				
Horseradish (Ground application Only)	Aphids Thrips	1 1/2	65	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Leafy Green Vegetables: Beet (tops) Dandelions, Kale, Mustard Greens, Greens, Parsley, Swiss Chard, Turnip Greens	Beet Armyworm Cabbage Looper* Diamondback Moth Imported Cabbageworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Cabbage Loopers in AL & GA.			
Lemon CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Lentils	Western Yellowstriped Armyworm	1 1/2 - 3	21	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			

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Lettuce (Head and Leaf varieties)	Alfalfa Looper	3/4 - 3	3/4-1 1/2 pt. -- 7 over 1 1/2 pts. -- 10	48 hrs
	Thrips	1 1/2 - 3		
	Aphids			
	Beet Armyworm Cabbage Looper Corn Earworm Aster Leafhopper			
	Variegated Cutworm	1 1/2		
Lettuce (head varieties) Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. Lettuce (leaf varieties) Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 2 days.				
Melons Including: Cantaloupe Casaba Santa Claus melon Crenshaw melon Honeydew melon Honey balls Persian melon Golden Pershaw melon Mango melon Pineapple melon	Loopers	1 1/2 - 3	1 1/2 pts. -- 1 day over 1 1/2 pts. -- 3 days	48 hrs
	Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm			
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop.			
Snake melon Watermelon				
Mint (Peppermint, Spearmint)	Variegated Cutworm	3	14	48 hrs
	Alfalfa Looper			
	Flea Beetles	2 1/4 - 3		
Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.				
Nectarine CA & AZ only	Thrips	1 1/2 – 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			
Oats	Armyworms Cereal Leaf Beetle*	3/4 – 1 1/2	7	48 hrs
	Aphids**			
Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.				

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	Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			
Onions (Green & Dry Bulb)	Beet Armyworm	1 1/2 - 3**	7 - Green & Dry Bulb Onions	48 hrs
	Thrips* Variegated Cutworm Black Cutworm	3**		
	Onions, green Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 5 days. Onions, dry bulb Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum treatment interval between treatments is 5 days. *Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control thrips. Begin applications before thrips populations reach 3-5 thrips per plant. For best results, use the highest rate of ROTAM METHOMYL 29LV and a wetting agent. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. ** Add a wetting agent to improve coverage.			
Oranges CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Fruittree Leafroller Beet Armyworm Citrus Cutworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Peaches	Califacing Insects (Plant Bugs and Stink Bugs) - begin at petal fall and Continue in cover sprays at 7 to 10-day intervals Oriental Fruit Moth* -begin at petal fall; use trapping devices and frequent field inspection to determine need for treatment. Continue treatment in cover sprays and alternate with residual-	3 pt (or 3/4 pt per 100 gal up to 400 gal per acre)	4	4 days

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	type insecticides registered for this use. Green Peach Aphid			
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. * Oriental Fruit Moth (Ground Application Only).			
Peanuts	Corn Earworm*	3/4 – 3	21	48 hrs
	Potato Leafhopper			
	Fall Armyworm			
	Beet Armyworm	1 1/4 - 3		
	Green Cloverworm	1 1/2 – 3		
	Velvetbean Caterpillar			
	Cabbage Looper			
	Soybean Looper **			
	Thrips			
	Granulate Cutworm			
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not feed treated vines. * ROTAM METHOMYL 29LV has ovicidal and larvicidal control on corn earworm. **Soybean Looper is difficult to control. Do not apply to worms greater than 1/2" long. Use higher rate for severe infestations.			
Pears Northeast only	Green Fruitworm	1 1/2 - 3*	7	48 hrs
	Oblique banded Leafroller			
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Apply in a minimum of 50 gallons of water per acre.			
Peas (succulent) Including: Pigeon peas Chick peas Garbanzo beans Dwarf peas Garden peas Green peas English Peas Field peas Edible pod peas	Alfalfa Looper	1 1/2 - 3	1 - Peas 5 - Forage 14 - Hay	48 hrs
	Cabbage Looper*			
	Pea Aphid			
	Beet Armyworm			
	Saltmarsh Caterpillar			
	Variegated Cutworm			
	Alfalfa Caterpillar	3/4 - 3		
Armyworm				
Green Cloverworm				
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop . Do not make more than 6 applications per crop; minimum interval between treatments is 3 days. * Do not use for Cabbage Loopers in AL & GA.			
Pecans Southeast only	Aphids	1 1/2 - 3	30	48 hrs
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 7 applications per crop.			
Peppers Including: Bell Hot Pimentos Sweet	Loopers	1 1/2 – 3	3	48 hrs
	Beet Armyworm			
	Green Peach Aphid			
	Armyworm			
	Fall Armyworm			
	Variegated Cutworm	3/4 – 1 1/2		
	European Corn Borer	3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop.			

	Do not make more than 10 applications per crop.			
Pomegranates	Omnivorous Leafroller	3	14	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Potato	Tuberworm*	1 1/2 - 3	6	48 hrs
	Loopers			
	Aphids			
	Beet Armyworm			
	Leafhoppers			
	Fall Armyworm			
	Variegated Cutworm	1 1/2		
	Flea Beetles			
	Do not apply more than 15 pints of ROTAM METHOMYL2 9LV per acre per crop. Do not make more than 10 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Repeat applications of ROTAM METHOMYL 29LV on a 5-7 day schedule, or longer as needed, to control tuber worm populations. An application schedule of effective insecticides with different modes of action may be needed to keep foliar feeding larval populations as low as possible prior to harvest to reduce the risk of larval damage to the tubers. Failure to adequately control tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage.			
Rye	Armyworms	3/4 – 1 1/2	7	48 hrs
	Cereal Leaf Beetle* Aphids**			
put on separate line	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			
Sorghum	Sorghum Webworm	1 1/2*	14**	48 hrs
Including: Sudangrass	Sorghum Midge	3/4 – 1 1/2*		
(except Sweet Sorghum)	—Apply when 50% bloom and 3-5 days later if needed.			
	Fall Armyworm (Budworm)			
	Beet Armyworm			
	Corn Earworm			
	Armyworm			

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Author: tharri02 Subject: Calfout Date: 4/1/2011 11:16:13 AM
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Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Minimum of 10 gallons per acre by ground or 2 gallons per acre by air. ** Do not apply within 14 days of feeding forage or cutting for hay.				
Soybeans	Green Cloverworm Velvetbean Caterpillar Mexican Bean Beetle Corn Earworm - Light to moderate infestations	2/5 - 3/4 (see Insect Predator section)	14 - Soybeans 3 - Forage 12 - Hay	48 hrs
	Corn Earworm - Moderate to severe infestations	3/4 – 1 1/2		
	Soybean Aphid	1/2 – 1		
	Beet Armyworm Salt Marsh Caterpillar Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper - Light to moderate infestations	3/4 – 1		
	Silver Spotted Skipper - Moderate to severe infestations	1 – 1 1/2		
	Do not apply more than 4.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			
Spinach	Alfalfa Looper Cabbage Looper Beet Armyworm Fall Armyworm	1 1/2 - 3	7	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply when minimum daily temp. is 32° F. or lower. Do not apply to seedlings less than 3" diameter. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Sugar Beet	Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstripe Armyworm*	3/4 - 3	30 - Tops 21- Roots	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. *Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control beet armyworm, aphids and western yellowstriped armyworm. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.			
Summer Squash* Including:	Looper Tobacco Budworm	1 1/2 - 3	1 1/2 pt. -- 1 day over 1 1/2 pt. -- 3 days	48 hrs

This page contains no comments

Crookneck squash Straightneck squash Scallop squash Vegetable marrow Spaghetti squash Hyotan Cucuzza Hechima Chinese okra Bitter melon Balsam pear Balsam apple Chinese Cucumber	Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickworm Fall Armyworm			
Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop. * Fruit of the Gourd (Cucurbitaceae) family that are consumed when immature, 100% of the fruit is edible cooked or raw, once picked cannot be stored, has a soft rind which is easily penetrated, and if seeds were harvested they would not germinate.				
Tangelo, Tangerine CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix, Beet Armyworm	1 1/2 - 3	1	72 hrs
Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.				
Tobacco (Except shade)	Flea Beetle Hornworm Loopers Aphids Tobacco Budworm Fall Armyworm	3/4 - 1 1/2 1 1/2	5 - Flue cured 14 - Air or fire cured	48 hrs
Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.				
Tomato (Including Tomatillos*)	Tomato Fruitworm Aphids Hornworm Loopers Beet Armyworm Southern Armyworm Pinworm Armyworm Fall Armyworm Variegated Cutworm	1 1/2 - 3 1 1/2	1	48 hrs
Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 16 applications per crop. * For tomatillos do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.				
Turf (For use on sod farms only)	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	3 (1.1 fl. ozs. per 1000 sq. ft.)		48 hrs
Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Do not graze or feed.				
Wheat	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs

Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.
Do not make more than 4 applications per crop.

Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.

*Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.

**Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought).

Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).

This page contains no comments

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in a tightly closed container in a cool, dry place.

Pesticide Disposal: Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the user according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal (Nonrefillable container 5 gallons or less): Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

Residue Removal: Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{3}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container: Refill this container with Rotam Methomyl 20LV containing methomyl only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Use standard industry practices for cleaning refillable containers.

Spills: For minor spills, leaks, etc., follow precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

Page: 31

Author: tham02 Subject: Replacement Text Date: 4/1/2011 11:17:21 AM
DELETE all; rewrite using PR notice and Dupont 352-384 as model

This page contains no comments

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Rotam Agrochemical Company Limited or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Rotam Agrochemical Company Limited and Seller harmless for any claims relating to such factors.

Rotam Agrochemical Company Limited warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Rotam Agrochemical Company Limited, and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW ROTAM LTD MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law, Rotam Agrochemical Company Limited or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ROTAM AGROCHEMICAL COMPANY LIMITED AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ROTAM AGROCHEMICAL COMPANY LIMITED OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Rotam Agrochemical Company Limited and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Rotam Agrochemical Company Limited.

Manufactured by:
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Registered: [TBA]

[Back Page of Booklet - remains on the container when booklet is removed]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP 1A INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

Active Ingredient By Weight

Methomyl
(S-methyl-N-[(methylcarbamoyl)
oxy]thioacetimidate) 29%

Inert Ingredients 71%

TOTAL 100%

Insert "contains methanol"

EPA Reg. No. 83100-TBA

EPA Est. No.: TBA

Refer to inside label booklet for Directions for Use.

KEEP OUT OF REACH OF CHILDREN

WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Page: 33

Author: tharri02 Subject: Replacement Text Date: 4/1/2011 10:28:31 AM

REPLACE with:
"other ingredients"

Author: tharri02 Subject: Callout Date: 4/1/2011 10:30:49 AM

Insert "contains methanol"

Author: tharri02 Subject: Replacement Text Date: 4/1/2011 10:26:13 AM

REPLACE with:

"DANGER skull/crossbones POISON
PELIGRO"

in red

FIRST AID
(N-Methyl Carbamate Insecticide)

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE —SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS

WARNING, FATAL IF SWALLOWED. CONTAINS METHANOL. MAY CAUSE BLINDNESS. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.

Do not get in eyes or on clothing. Wear protective eyewear. Harmful if inhaled or absorbed through skin. Avoid contact with skin or breathing spray mist. Wash hands thoroughly with soap and water after handling.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on the ROTAM METHOMYL 29LV label and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

REPLACE with:

"DANGER skull/crossbones
POISON
PELIGRO"

in red

Page: 34

Author: tharri02 Subject: Callout Date: 4/1/2011 10:26:59 AM
REPLACE with:

"DANGER skull/crossbones POISON
PELIGRO"

in red

Author: tharri02 Subject: Pencil Date: 4/1/2011 10:48:44 AM

Author: tharri02 Subject: Pencil Date: 4/1/2011 10:48:31 AM

Author: tharri02 Subject: Replacement Text Date: 4/1/2011 10:47:46 AM
REPLACE with:

"CONTAINS METHANOL. METHANOL MAY CAUSE BLINDNESS. CAUSES IRREVERSIBLE EYE DAMAGE. MAY BE FATAL IF SWALLOWED OR INHALED. Harmful if absorbed through skin. Do not get in eyes or on clothing. Do not breathe spray mist. Avoid contact with skin. Wash hands thoroughly with soap and water after handling."

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed.

Use with adequate ventilation.

add: "The product shows potential explosive properties when heated to elevated temperatures."

Page: 35

Author: tharr02 Subject: Callout Date: 4/1/2011 11:18:47 AM

add: "The product shows potential explosive properties when heated to elevated temperatures."

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in a tightly closed container in a cool, dry place.

Pesticide Disposal: Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the user according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal (Nonrefillable container 5 gallons or less): Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

Residue Removal: Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container: Refill this container with Rotam-Methomyl 20LV containing methomyl only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Use standard industry practices for cleaning refillable containers.

Spills: For minor spills, leaks, etc., follow precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

Page: 36

Author: thami02 Subject: Replacement Text Date: 4/1/2011 11:20:11 AM
DELETE all; rewrite using PR notice and Dupont 352-384 as model

This page contains no comments

Registered:

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

**Net Contents
Gallons**



reviews so far for methomyl products

t
Thomas Harris o Frank Sobotka
:

03/24/2011 12:20 PM

Dr. Sobotka,

Here are the reviews so far for the pending methomyl products listed below. The product chemistry for the two end-use products are still in process.

>>> ACTION ITEMS:

81598-O

LABEL - Change % a.i., inert to other, change % other.

83100-ET

LABEL - revise signal word, methanol text, Precautionary text intro, PPE

83100-EI

LABEL - should be ok but check against acute tox review to be sure

TECHNICAL 81598-O



81598-O.product chemistry.20110228. no CBI .pdf



81598-00009.acute tox review.20110223.pdf

29LV 83100-ET



83100-00027.acute tox review.20110228.pdf

90SP 83100-EI



83100-00028.acute tox review.20110310.pdf

Tom Harris
EPA/OCSP/OPP/RD/IRB
voice: (703) 308-9423
fax: (703) 308-0029
harris.thomas@epa.gov
visit <http://www.epa.gov/pesticides>



RE: need 83100-ET color info

Frank Sobotka o Thomas Harris

03/16/2011 01:20 PM

History: This message has been replied to.

See attached revised CSF for 83100-ET and 83100-EI (page 1&2). Both CSF's have been corrected to . . .
> Rock/DC/USEPA/US]



> 83100-EI Alt Methomyl 90SP CSF p1&2 rev 03_16_11.pdf 83100-ET Alt Methomyl 29LV CSF rev 03_16_11.pdf

CBI removed

see CSF folder

83100-ET
Addendum
fchem

Memorandum

Date: 3/21/11

To: PM 7, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: ☒ **fully accepted submission**
☐ partially accepted submission
☐ rejected submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

March 15, 2011

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

FRANK E. SOBOTKA, PH.D.
IPM RESOURCES LLC
ROTAM AGROCHEMICAL COMPANY LIMITED
7/F CHEUNG TAT CENTRE
4032 CROCKERS LAKE BLVD., STE 818
SARASOTA, FL 43238-

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 14-MAR-11. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

Receipt for Section 3

S: 891959

Resubmission: ☒ Yes ☐ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☐ Yes ☒ No

Application Type: New Registration

Billable: ☐ Yes ☒ No

Company: 83100 ROTAM AGROCHEMICAL COMPANY LIMITED V

Risk Manager: Registration Division, Risk Management Team 7

Product #: 83100-ET Product Name: ROTAM METHOMYL 29LV INSECTICIDE

Override#:

Me Too Section3: 352-384 Me Too Product Name: DUPONT LANNATE LV INSECTICIDE

Application Date: 10-Mar-2011 id

OPP Rec'd Date: 14-Mar-2011 id

Front End Date: 14-Mar-2011 id

Risk Manager Send Date: 14-Mar-2011 id

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

revised volume 1-R (group A product chemistry) and addendum 2 to volume 1-R

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

New Ingredient

Request Date:

New Ingredient

Received Date:

Print Letter

Enter More Information

Tracking

Receipt Content

Des

Study

View/Edit

IPM Resources LLC

4032 Crockers Lake Blvd., Suite 818, Sarasota, FL 34238 Phone: (215) 497-9501 Fax: (215) 497-9502

484166-00

"an intellectual property management resource company"

March 10, 2011

VIA UPS EXPRESS NDA

Harris.Tom@epa.com

[REF. ☎ 1-703-308-9423]

— AIT CSF ^{3/7/11} data

— see 3/15/11 email (CBI) in CSF folder

— superseded by AIT CSF dated 3/16/11

Document Processing Desk
Office of Pesticide Programs (7504P)
U. S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501
ATTN: John Hebert PM 7/Tom Harris

SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide
Submission of Addendum 2 to Volume 1-R (Group A, Product Chemistry)
EPA File Symbol 83100 - ET

Dear Mr Harris :

The purpose of this letter is to transmit to the Agency on behalf of Rotam Agrochemical Company Limited an Addendum (ADDENDUM 2) to MRID 48223901 (Volume 1-R/Product Chemistry Group A) for the above subject Product Submission in review.. Rotam is requesting that a new MRID number be issued for this report, and, the report added to MRID 48223901 for review.

Addendum 2 adds corrections to the Basic Confidential Statement of Formula, and, adds a second Confidential Statement of Formula (Alternate CSF) with supporting information on the Products Identity and Disclosure of Ingredients, including Manufacturing Process, for an Alternative Formulation containing a colorant. The specified Colorant (inert dye) is a Food Grade Colorant approved for direct application and packaging of food products.

The addition of a colorant incorporates better stewardship of the product by allowing the end-user to identify the presence of the product in the tank when mixing and applying the product.

Rotam trusts that the Agency will give this use special consideration when evaluating the products "significant similarity" in composition with respect to FIFRA Section 3(c)(3)(b)(i). The following documents are enclosed with this submission:

John Hebert, PM 7/Tom Harris
EPA Registrations Branch
March 10, 2011

Page 2

SUBJECT: Application for Registration, Submission of ADDENDUM 2 to Vol 1-R (Group A, Product Chemistry) - Rotam Methomyl 29LV Insecticide/Continued EPA File Symbol 83100 - ET

Administrative Materials: (MRID No.: _____)

- Transmittal Form (EPA Form 8570-1)

Three copies each of the following:

VOLUME NO.	DESCRIPTION	OPPTS GUIDELINE REF. NO.	MRID NO.
1-R ADDENDUM 2	Product Identity & Disclosure of Ingredients, Including Manufacturing Process/Rotam Methomyl 90SP Insecticide [Report No.: METHMYL29LV]	Group A 830.1550 830.1600 830.1650	48416601

We appreciate your assistance with this Application. If you have any questions or need additional information, please do not hesitate to contact us at any time.

Sincerely yours,

Frank E. Sobotka, Ph.D.
Senior Partner
IPM Resources LLC (Agent)

ATT:



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Rotam Agrochemical Company Ltd / 83100	2. EPA Product Manager John Hebert/Tom Harris	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Rotam Methomyl 29LV Insecticide (83100- ET)	PM# 7	
5. Name and Address of Applicant (Include ZIP Code) ROTAM Agrochemical Company Limited C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 352-384 Product Name DuPont Lannate LV	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of Addendum (Addendum 2) to Volume 1-R Product Chemistry Group A (MRID 48223901) for Rotam Methomyl 29LV Insecticide (83100-ET). The Addendum adds an Alternative Confidential Statement of Formula (CSF), adding use of a Food Use Colorant into the Basic Formulation.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1qt, 1 gal, 2.5 gal, 15 gal, bulk		5. Location of Label Directions <input checked="" type="checkbox"/>	
6. Manner in Which Label is Affixed to Product Printed or glued <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Frank E. Sobotka, Ph.D.		Title Agent	
		Telephone No. (Include Area Code) 215 497-9501	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			8. Date Application Received (Stamped)
2. Signature		3. Title Agent	
4. Typed Name Frank E. Sobotka, Ph.D.		5. Date March 10, 2011	

83100-ET

Revised
pchem

Memorandum

Date: 3/21/11

To: PM 7, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: ☒ **fully accepted submission**
☐ partially accepted submission
☐ rejected submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

March 15, 2011

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

FRANK E. SOBOTKA, PH.D.
IPM RESOURCES LLC
ROTAM AGROCHEMICAL COMPANY LIMITED
7/F CHEUNG TAT CENTRE
4032 CROCKERS LAKE BLVD., STE 818
SARASOTA, FL 43238-

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 14-MAR-11. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

Receipt for Section 3					
S:	891959		Resubmission:	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Regulatory Type:	Product Registration - Section 3		Fee For Service:	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Application Type:	New Registration		Billable:	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Company:	83100 ROTAM AGROCHEMICAL COMPANY LIMITED		V		
Risk Manager:	Registration Division, Risk Management Team 7				
Product #:	83100-ET	Product Name:	ROTAM METHOMYL 29LV INSECTICIDE		
Override#:					
Me Too Section3:	352-384	Me Too Product Name:	DUPONT LANNATE LV INSECTICIDE		
Application Date:	10-Mar-2011	OPP Rec'd Date:	14-Mar-2011		
Front End Date:	14-Mar-2011	Risk Manager Send Date:	14-Mar-2011		
FFS Due Date:		Negotiated Due Date:			
OPP Target Date:					
Fast Track:	<input type="checkbox"/>	New Ingredient:	<input type="checkbox"/>		
Receipt Description:					
revised volume 1-R (group A product chemistry) and addendum 2 to volume 1-R					
Form A:	<input type="checkbox"/>	Signature Date:		Form B:	<input type="checkbox"/>
		Signature Date:			
				New Ingredient Request Date:	
				New Ingredient Received Date:	
				Signature Date:	

Print Letter

Enter More Information

Tracking

Receipt Content	Des
Study	

View/Edit

IPM Resources LLC

4032 Crockers Lake Blvd., Suite 818, Sarasota, FL 34238 Phone: (215) 497-9501 Fax: (215) 497-9502

484167-00

"an intellectual property management resource company"

March 10, 2011

VIA UPS EXPRESS NDA

Harris.Tom@epa.com

[REF. ☎ 1 -703-308-9423]

Document Processing Desk
Office of Pesticide Programs (7504P)
U. S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501
ATTN: John Hebert PM 7/Tom Harris

SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide
Submission of Revised Volume 1-R (Group A, Product Chemistry)
EPA File Symbol 83100 - ET

Dear Mr Harris :

The purpose of this letter is to transmit to the Agency on behalf of Rotam Agrochemical Company Limited a Revised Copy of MRID 48223901 (Volume 1-R/Product Chemistry Group A) for the above subject Product Submission in review.. Rotam is requesting that a new MRID number be issued for this report, and, the report addended to MRID 48223901 for review.

This Revised Report adds corrections to the Basic Confidential Statement of Formula requested by Product Chemistry Reviewer, Shyam Mathur. It also corrects the nominal concentration of the Technical Active Ingredient (81598-O) in the composition of formulation.

The following documents are enclosed with this submission:

Administrative Materials: (MRID No.: _____)

- Transmittal Form (EPA Form 8570-1)

Three copies each of the following:

RECEIVED
U.S. ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460
MAR 14 2011
OFFICE OF PESTICIDE PROGRAMS
ROOM S-4900
ONE POTOMAC YARD
ARLINGTON, VA 22202-4501
TEL: 703-308-9423
FAX: 703-308-9423
WWW.EPA.GOV

John Hebert, PM 7/Tom Harris
EPA Registrations Branch
March 10, 2011

Page 2

**SUBJECT: Application for Registration - Rotam Methomyl Insecticide/Continued
Submission of Revised Vol 1-R (Product Chemistry Report, Group A), EPA File Symbol
83100 - ET**

VOLUME NO.	DESCRIPTION	OPPTS GUIDELINE REF. NO.	MRID NO.
1-R (REVISED)	Product Identity & Disclosure of Ingredients, Including Manufacturing Process/Rotam Methomyl 29LV Insecticide [Report No.: METHMYL29LV]	Group A 830.1550 830.1600 830.1650	48416701

We appreciate your assistance with this Application. If you have any questions or need additional information, please do not hesitate to contact us at any time.

Sincerely yours,

Frank E. Sobotka, Ph.D.
Senior Partner
IPM Resources LLC (Agent)

ATT:



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Rotam Agrochemical Company Ltd / 83100	2. EPA Product Manager John Hebert	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Rotam Methomyl 29LV Insecticide (83100- ET)	PM# 7	
5. Name and Address of Applicant (Include ZIP Code) ROTAM Agrochemical Company Limited C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 352-384 Product Name DuPont Lannate LV	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of Revised Volume 1-R Product Chemistry Group A (MRID 48223901) for Rotam Methomyl 29LV Insecticide (83100-ET). This submission revises the Confidential Statement of Formula (CSF) per the change in the nominal concentration of the Technical active Ingredient (81598-O), and other minor corrections to the CSF requested by the Agency Reviewer.

Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1qt, 1 gal, 2.5 gal, 15 gal, bulk	
5. Location of Label Directions <input checked="" type="checkbox"/>		6. Manner in Which Label is Affixed to Product Printed or glued <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled <input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Frank E. Sobotka, Ph.D.		Title Agent	Telephone No. (Include Area Code) 215 497-9501
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Agent	
4. Typed Name Frank E. Sobotka, Ph.D.		5. Date March 07, 2011	

[Front Container Label – Optional if Booklet is used as front container label]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP

1A

INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
Inert Ingredients	71%
TOTAL	100%

EPA Reg. No. 83100-TBA

EPA Est. No.: TBA

KEEP OUT OF REACH OF CHILDREN

WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional Precautionary Statements on inside booklet and back panel of container and Directions for Use on inside booklet.

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons

[Booklet Cover]

PULL HERE TO OPEN ►

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP

1A

INSECTICIDE

Rotam Methomyl 29SL Insecticide

KEEP OUT OF REACH OF CHILDREN

~~WARNING~~

Handwritten: DANGER
PELIGRO

Handwritten: POISON ✓

Handwritten: Peligro

Handwritten: ~~AAA~~
Handwritten: *ingredient* →

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

(N-Methyl Carbamate insecticide)

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Handwritten: *symptoms* →
Handwritten: *DT*

[Booklet Cover Continued]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

~~WARNING. FATAL IF SWALLOWED. CONTAINS METHANOL; MAY CAUSE BLINDNESS. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.~~

~~Do not get in eyes or on clothing. Wear protective eyewear. Harmful if inhaled or absorbed through skin. Avoid contact with skin or breathing spray mist. Wash hands thoroughly with soap and water after handling.~~

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on the ROTAM METHOMYL 29LV label and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

Refer to inside for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, Engineering Controls Statements, Environmental Hazards and Directions for Use.

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

Active Ingredient	By Weight
Methomyl	
(S-methyl-N-[(methylcarbamoyl)oxy]thioacetimidate)	29%
Inert Ingredients	71%
TOTAL	100%

EPA Reg. No. 83100 - TBA

EPA Est. No.: TBA

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

**Net Contents
Gallons**

[Inside Booklet page 2]

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Application	
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✓ use for DFU
move to
after PPR
~~PPR~~

PRECAUTIONARY STATEMENTS (Continued)
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

DANGER & POISON

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category B on an EPA chemical-resistance category

Applicators and others exposed to the diluted spray solution must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves such as barrier laminate or butyl rubber.
- Shoes plus socks.
- Protective eyewear.

Mixers, loaders, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:

- Long sleeve shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber.
- Socks and chemical resistant footwear.
- Protective eyewear.

~~Respirator as outlined below.~~

Chemical resistant apron.

~~For exposures in enclosed areas,~~ a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

~~For exposures outdoors,~~ Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P, or HE prefilter. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other

ENGINEERING CONTROL STATEMENTS

Human flaggers must be in enclosed cabs.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must not assist in the mixing and loading operations.

USER SAFETY RECOMMENDATIONS

USERS SHOULD:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

✓ - Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation.

✓ *The product shows potential explosive properties when heated to elevated temperatures.*

DIRECTIONS FOR USE Restricted Use Pesticide

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). REI Summary: ~~REI grapes = 7 day~~; REI peaches = 4 day; REI apple, cotton, grapefruit, lemon, nectarine, orange, tangelo, tangerine = 3 day; all other WPS uses = 48 hour REI.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls.

Chemical-resistant gloves, such as barrier laminate or butyl rubber.

Shoes plus socks.

Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

~~Notify workers of the application to grapes by warning them orally and by posting Warning signs at entrances to treated areas.~~

APPLICATION

GENERAL INFORMATION

Chemigation: Overhead sprinkler chemigation is allowed for use in alfalfa, barley, succulent and dry beans, oats, onions, succulent peas, potatoes, rye, sugar beets, sweet corn and wheat. ~~Drip chemigation is allowed for onions. See Federal Supplemental labeling for overhead sprinkler chemigation directions for use in sweet corn, succulent peas and succulent and dry beans; and for directions for use for drip chemigation in onions. Refer to supplemental, or Special Local Need (SLN) labeling or the crop specific sections of this label for use directions for chemigation.~~ Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN or this product label.

Do not formulate this product into other End-use products without written permission from Rotam.

ROTAM METHOMYL 29LV insecticide should be used only in accordance with directions for use on this label or in separate Rotam supplemental labeling. Rotam will not be responsible for use of the product in a manner not specified by Rotam in the product's labeling and User assumes all risk for such use.

ROTAM METHOMYL 29LV is a water soluble liquid that is applied by foliar application to control many important insect pests. ROTAM METHOMYL 29LV is mixed with water for application.

Pilots must not assist in the mixing and loading operations.

Do not apply by ground equipment within 25 feet, or by air within 100 feet of

lakes, reservoirs, rivers, estuaries, commercial fish ponds and natural, permanent streams, marshes or natural, permanent ponds. Increase the buffer zone to 450 feet from the above aquatic areas when ultra low volume application is made.

Hand-held equipment is prohibited for applications to crops. This product must be applied to crops only with mechanical ground, overhead sprinkler chemigation or aerial application equipment.

Use only in commercial and farm plantings. Not for use in home plantings. Not for use during any period after a commercial crop site is opened for public entry as a "U-Pick", "Pick Your Own" or similar operation; in no case shall preharvest applications be made after first public entry. The restricted entry interval and preharvest interval for the crop stated elsewhere on this label must be followed.

SCOUTING

Monitor insect populations to determine whether or not there is a need for application of ROTAM METHOMYL 29LV based on locally determined economic thresholds. More than one treatment of ROTAM METHOMYL 29LV may be required to control a population of pests.

BENEFICIAL ARTHROPODS

ROTAM METHOMYL 29LV at rates of 2/5 to 3/4 pint per acre helps conserve certain beneficials, including big-eyed bugs, damsel bugs, flower bugs and spiders in cotton and soybeans. While these beneficials cannot be relied upon to control pests, they are of potential value and should be monitored along with pests in pest management programs on these crops.

RESISTANCE MANAGEMENT

For resistance management, ROTAM METHOMYL 29LV insecticide is a group 1A insecticide. Repeated and exclusive use of ROTAM METHOMYL 29LV or other group 1A insecticides may lead to the build-up of resistant strains of insects in some crops. Not all members of this group have been shown to be cross-resistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different sub-groups within this group may be an acceptable part of an integrated pest management program.

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below the economic threshold. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode-of-action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of

control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

INTEGRATED PEST MANAGEMENT

This product should be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying ROTAM METHOMYL 29LV.

Fill spray tank 1/4 to 1/2 full of water. Add ROTAM METHOMYL 29LV directly to spray tank. Mix thoroughly. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

Compatibility — Since formulations may be changed and new ones introduced, in this situation users can premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.) before applying the product. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use ROTAM METHOMYL 29LV with Bordeaux mixture (copper sulfate and hydrated lime), Du Ter triphenyltin hydroxide, lime sulfur, Rayplex iron nor in highly alkaline solutions. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

Tank Mix Sequence — Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

1. Water soluble bags.
2. Water dispersible granules
3. Wettable powders
4. Water based suspension concentrates
5. ROTAM METHOMYL 29LV and other water soluble concentrates
6. Oil based suspension concentrates
7. Emulsifiable concentrates
8. Adjuvants, surfactants, oils, soluble fertilizers, and drift retardants. Follow local practice and manufacturer's recommendation.

APPLICATION

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Follow-up treatments of ROTAM METHOMYL 29LV should be applied, as needed, to keep pest populations within threshold limits. On most crops, ROTAM

METHOMYL 29LV should be applied at 5 to 7 day intervals to maintain control. Refer to crop specific directions for use in the crop tables for more specific information on treatment intervals.

Use sufficient water to obtain thorough, uniform coverage. Since ROTAM METHOMYL 29LV is a fast acting contact insecticide, best results follow direct spraying of the target insect.

For aerial, use a minimum of 2 gals. per acre (gpa) except 10 gpa for ~~grapes~~, peaches, and nectarines; 15 gpa for oranges, lemons, grapefruit, tangelos and tangerines. ✓

ROTAM METHOMYL 29LV is recommended for use as a low volume aerial spray 0.53 gpa (2L) for cotton* and soybeans* and 1 gpa for the crops listed below providing the following conditions are met:

- equipment is adjusted to distribute spray uniformly over the spray swath,
- wind conditions and other factors such as temperature and humidity are such
- that the spray is delivered to the target area,
- local regulations do not prohibit low-volume aerial sprays,
- use rates are applied as directed on the package label or supplemental labeling for the following crops:

Alfalfa	Celery	Peas (succulent)
Anise	Collards	Peppermint
Asparagus	Corn	Peppers
Barley	Cotton	Potato
Beans	Cucumber	Rye
Broccoli	Lettuce	Soybean
Brussels sprouts	Melons	Spinach
Cabbage	Mint	Sugar beet
Carrot	Oats	Summer Squash
Cauliflower	Peanuts	Wheat

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Hereafter, use the lowest rate possible to maintain control.

* Not Registered for aerial application in a diluted volume of less than 1 gal in CA.

SPRAY TANK CLEANOUT

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

CHEMIGATION

Instructions for the Use of ROTAM METHOMYL 29LV on Alfalfa, Barley, Oats, Green and Dry Bulb Onions, Potatoes, Rye, Sugar Beets and Wheat Using Overhead Sprinkler Chemigation

Overhead chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical chemigation applications are more dilute than ground or aerial applications. For best results, it is recommended to keep the concentration of ROTAM METHOMYL 29LV as high as possible in the application. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre.

ROTAM METHOMYL 29LV is most active as a contact insecticide, although it does also have activity via ingestion of treated plants. For best results, applications of ROTAM METHOMYL 29LV should take place when the insects are active and most likely to come into direct contact with the application.

Types of Irrigation Systems:

ROTAM METHOMYL 29LV may be applied through overhead sprinkler irrigation systems for control of various pests. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens. Do not apply ROTAM METHOMYL 29LV through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN, or this product label.

General Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of ROTAM METHOMYL 29LV in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of ROTAM METHOMYL 29LV into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of ROTAM METHOMYL 29LV. Once in solution, no further agitation is required. Injection solution should not be stored overnight. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic (pH5-7).

Injection into Chemigation Systems

Inject the proper amount of the ROTAM METHOMYL 29LV solution into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

Uniform Water Distribution

The irrigation system used for application of ROTAM METHOMYL 29LV must provide for uniform distribution of ROTAM METHOMYL 29LV treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

*merge w/
chem from
start of DEFU ✓*
Only overhead ✓
allowed
chrip is SLN/supplemental
Drip not only

Equipment calibration

Calibrate the irrigation system and injector before applying ROTAM METHOMYL 29LV. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for cleaners and repairers of application equipment when making adjustments or repairs on the chemigation system when ROTAM METHOMYL 29LV is in the irrigation water.

Required System Safety Devices

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Posting of Areas to be Treated

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes, or any other public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in ENGLISH. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color, which sharply contrasts with their immediate background. At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol shall be the words "PESTICIDE IN IRRIGATED WATER".

Posting for chemigation does not replace other posting and reentry requirements for farm worker safety.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system. End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

Nozzles in the immediate area of control panels, chemical supply tanks, wellheads and system safety devices must be plugged to prevent contamination of these areas.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity**, and **Temperature Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types and the lowest drift.
- **Boom Length** - For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift

without reducing swath width.

- **Application Height** - Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- **Swath Adjustment** - When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downward edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind.

However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. These sprayers are not suitable for applying herbicides. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift;

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Alfalfa	Pea Aphid Lygus Bugs Blotch Leafminer Aphids Egyptian Alfalfa Weevil Larvae Loopers Beet Armyworm Armyworm Alfalfa Caterpillar Fall Armyworm Western Yellowstriped Armyworm Yellowstriped Armyworm	1 1/2 – 3	7 *	48 hrs
	Alfalfa Weevil Larvae	3		
	Variegated Cutworm	3/4 - 3		
	Do not apply to dormant or semi-dormant alfalfa when minimum. daily temp. is 50° F, or lower.			

	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.			
Anise (Fennel)	Cabbage Looper	3	7	48 hrs
	Beet Armyworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Apple Ground application only	Apple Aphid Rosy Apple Aphid Tufted Apple Budmoth Green Fruitworm Tarnished Plant Bug	1 1/2 - 3 *	14	72 hrs
	Codling Moth (10-12 day spray intervals)			
	Leafrollers (Fruit-tree, Obliquebanded, Redbanded, Variegated) Lesser Appleworm White Apple Leafhopper Tentiform Leafminer Cutworm	3 *		
	Do not use on Early Macintosh & Wealthy varieties Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop; minimum interval between treatments is 7 days. * Apply in a minimum of 50 gallons of water per acre.			
Asparagus	Beet Armyworm, Western Yellowstriped Armyworm Asparagus Beetle Spotted Asparagus Beetle White Cutworm Redbacked Cutworm	1 1/2 - 3	1	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Avocado	Western Avocado Leafroller Omnivorous Looper	1 1/2 - 3	1	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Barley	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.			

<p>Do not make more than 4 applications per crop.</p> <p>Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p>*Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.</p> <p>**Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).</p>				
Beans (Succulent) Including: Kidney Lima Mung Navy Pinto Snap Wax Broad Fava Asparagus Blackeyed peas Cowpeas Chick peas Garbanzo beans Sweet lupine White sweet lupine White lupine Grain lupine	Leafhopper Mexican Bean Beetle	3/4 – 3	Succulent Beans - 3/4 - 1 1/2 pts. -- 1, over 1 1/2 pts. -- 3; 3 - Vines 7 - Hay	48 hrs
	Fall Armyworm Variegated Cutworm	1 1/2		
	Beet Armyworm Corn Earworm Saltmarsh Caterpillar, Yellowstriped Armyworm Western Yellowstriped Armyworm Lygus Bugs Thrips Aphids Loopers*	1 1/2 - 3		
	European Corn Borer (Ovicide & Larvicide)-- Initiate when moth flights first appear and-continue preventive treatments at 3-4 day intervals To control eggs and larvae			
	Spotted Cucumber Beetle	3/4 – 1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Do not use for Loopers in AL & GA.			
Beans (Dry) (Same as Succulent Beans)	(Same as Succulent Beans)	(Same as Succulent Beans)	14 - Dry Beans * 14 - Vines * 14 - Hay *	48 hrs
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV/acre /crop. Do not make more than 10 applications per crop. Do not use for Loopers in AL & GA. *Do not apply within 14 days of cutting.			
Beets (Table)	Imported Cabbageworm	3/4 – 3	0 - roots 10 -tops	48 hrs
	Beet Armyworm Cabbage Looper Diamondback Moth	1 1/2 - 3		

	Cucumber Beetle Variegated Cutworm	1 1/2		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Bermudagrass pasture	Fall Armyworm Armyworm Striped Grass Looper	3/4 - 3	7 - Forage * 3 - Dehydrated Hay **	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * Do not apply within 7 days of feeding forage or allowing livestock to graze. ** Do not apply within 3 days of cutting for hay.			
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1 1/2	3	48 hrs
	Cranberry Fruitworm* Cherry Fruitworm*	1 1/2 - 3		
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	3		
	Blueberry Maggot	3/4-1 1/2		
	Do not apply during bloom. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * For ground use only.			
Broccoli	Loopers Diamondback Moth	1 1/2 - 3**	3	48 hrs
	Imported Cabbageworm	3/4 - 3**		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV/acre/crop Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Brussels Sprouts	Loopers Imported Cabbageworm, Diamondback Moth	1 1/2 - 3 **	3	48 hrs
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Cabbage	Loopers * Diamondback Moth Fall Armyworm	1 1/2 - 3 **	1	48 hrs
	Imported Cabbageworm	3/4 - 3 **		
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. * Do not use for Loopers in AL & GA. <i>Add a wetting agent to improve coverage. - [optional]</i>			
Carrot	Beet Armyworm Armyworms Aster Leafhopper	1 1/2 - 3	1	48 hrs

	Variegated Cutworm	3/4 – 1 1/2		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Cauliflower	Imported Cabbageworm	3/4 – 3 **	3	48 hrs
	Loopers Diamondback Moth	1 1/2 – 3 **		
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Celery	Beet Armyworm	1 1/2 – 3	7	48 hrs
	Aster Leafhopper			
	Loopers	3		
	Variegated Cutworm	1 1/2		
	Armyworms	3/4 - 3		
Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.				
Chicory	Beet Armyworm Variegated Cutworm Leafhoppers	1 1/2 - 3	80	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Chinese Cabbage	Loopers Beet Armyworm	1 1/2 - 3*	10	48 hrs
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Minimum of 25 gallons water per acre by ground or 5 gallons by air.			
Collards (Fresh market only)	Diamondback Moth Variegated Cutworm	1 1/2	10	48 hrs
	Imported Cabbageworm Beet Armyworm Loopers*	1 1/2 - 3		
	Do not apply when temp. is less than 50° F Do not apply when crop is less than 10" tall. Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Loopers in AL & GA.			
Corn (Field, Popcorn & Seed)	Earworm – (Ovicide/Larvicide) Armyworm Fall Armyworm European Corn Borer Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2	21 - Ears 3 - Forage* 21 - Stover*	48 hrs
	Variegated Cutworm, Beet Armyworm	1 1/2		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop.			

	Do not make more than 10 applications per crop. *Corn forage is green actively growing plants that are harvested with the ears intact. The plants can be fed directly to animals or used to make silage. Corn stover are the parts of the plant that remain after removal of the grain at full plant maturity. These remaining stalks and leaves can be fed as roughage to animals.			
<div>Corn (Sweet) Cotton – All US</div>	Earworm--Whorl as needed	1 – 1 1/2	0 -Ears 3 - Forage 21 - Stover	48 hrs
	Fall Armyworm Armyworm Earworm, (Ovicide/Larvicide) European Corn Borer -Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2		
	Variegated Cutworm Beet Armyworm	1 1/2		
	Certain hybrid varieties of sweet corn are susceptible to methomyl injury. Treat a small area to determine crop safety before full scale spraying. Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 28 applications per crop; minimum interval between treatments is 1 day.			
	Ovicide/Larvicide - Bollworm Tobacco Budworm Initiate schedule when significant numbers of eggs are present Continue at 3 to 5-day intervals while eggs are present and larval control is adequate. If significant larvae survive, use higher rates below. Lygus Bugs/Plant Bugs (adults and nymphs) Start treatment on low level Population for suppression.	2/5 - 3/4 (see Insect Predator Section)	15	72 hrs
Cotton Leafworm	3/4 – 1 1/2			
Cotton Fleahopper (as needed)	2/5 – 3/4			
Aphids, Thrips	3/4			
East of Rockies only	(Early Season) Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/PlantBugs (adults and nymphs) Use as occasional spray in regular schedule but not more often than every 10 days.	1 1/2		
	(Late Season)	1 1/2 – 2 1/4		

	Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adult and nymphs) Up to 3 applications at 3-5 day intervals after desired boll load set on plants.			
Texas	Cotton Aphid	3/4 – 2		
West of Rockies only	Larvicide for worms: Bollworm Fall Armyworm Tobacco Budworm Lygus Bugs Beet Armyworm	1 1/2 – 2 1/4		
	Cotton Leafperforator	1 – 2 1/4		
	For applications West of the Rockies, make applications on 3-5 day intervals after desired boll load set on plants. For all applications made to cotton in the United States: Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not graze or feed. Use may redden cotton. If excessive, stop or alternate with other insecticides.			
Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pt. – 1 Over 1 1/2 pt.- 3	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications /crop.			
Eggplant	Green Peach Aphid	3/4 – 3	5	48 hrs
	Tomato Pinworm (Ground Application Only) Beet Armyworm Corn Earworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Endive, Escarole	Beet Armyworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Garlic	Beet Armyworm	1 1/2**	7	48 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. ** Add a wetting agent to improve coverage.			

Grapefruit CA, AZ & HI only	Thrips Fruitree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Grapes East of Rockies only	Grape Berry Moth (apply pre- & post-bloom & repeat at 10-14 day intervals or as needed) Leafhoppers	1 1/2 - 3	1 - Fresh & Raisin 14 - Wine Grapes	7 days
All U.S.	Omnivorous Leafroller Grape Leafroller Orange Tortrix			
West of Rockies only	Saltmarsh Caterpillar Leafhoppers*			
	Climbing Cutworm (Treat infestation and repeat at 7-14 day intervals as needed)	3		
CA only	Grape Leaf Skeletonizer*	1 1/2 - 3		
	Thrips	1 1/2 - 3		
For all applications made to grapes in the United States: Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop. * Leafhoppers & Grape Leaf Skeletonizer (Ground Application Only).				
Horseradish (Ground application Only)	Aphids Thrips	1 1/2	65	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Leafy Green Vegetables: Beet (tops) Dandelions, Kale, Mustard Greens, Greens, Parsley, Swiss Chard, Turnip Greens	Beet Armyworm Cabbage Looper* Diamondback Moth Imported Cabbageworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Cabbage Loopers in AL & GA.			
Lemon CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Lentils	Western Yellowstriped Armyworm	1 1/2 - 3	21	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			

Lettuce (Head and Leaf varieties)	Alfalfa Looper	3/4 - 3	3/4-1 1/2 pt. -- 7 over 1 1/2 pts. -- 10	48 hrs
	Thrips Aphids Beet Armyworm Cabbage Looper Corn Earworm Aster Leafhopper	1 1/2 - 3		
	Variegated Cutworm	1 1/2		
	Lettuce (head varieties) Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. Lettuce (leaf varieties) Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 2 days.			
Melons Including: Cantaloupe Casaba Santa Claus melon Crenshaw melon Honeydew melon Honey balls Persian melon Golden Pershaw melon Mango melon Pineapple melon Snake melon Watermelon	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pts. -- 1 day over 1 1/2 pts. -- 3 days	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop.			
Mint (Peppermint, Spearmint)	Variegated Cutworm Alfalfa Looper	3	14	48 hrs
	Flea Beetles	2 1/4 - 3		
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Nectarine CA & AZ only	Thrips	1 1/2 – 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			
Oats	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.			

	Do not make more than 4 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			
Onions (Green & Dry Bulb)	Beet Armyworm	1 1/2 - 3**	7 - Green & Dry Bulb Onions	48 hrs
	Thrips* Variegated Cutworm Black Cutworm	3**		
	Onions, green Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 5 days. Onions, dry bulb Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum treatment interval between treatments is 5 days. *Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control thrips. Begin applications before thrips populations reach 3-5 thrips per plant. For best results, use the highest rate of ROTAM METHOMYL 29LV and a wetting agent. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. ** Add a wetting agent to improve coverage.			
Oranges CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Fruittree Leafroller Beet Armyworm Citrus Cutworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Peaches	Catfacing Insects (Plant Bugs and Stink Bugs) - begin at petal fall and Continue in cover sprays at 7 to 10-day intervals Oriental Fruit Moth* -begin at petal fall; use trapping devices and frequent field inspection to determine need for treatment. Continue treatment in cover sprays and alternate with residual-	3 pt (or 3/4 pt per 100 gal up to 400 gal per acre)	4	4 days

	type insecticides registered for this use. Green Peach Aphid				
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. * Oriental Fruit Moth (Ground Application Only).				
Peanuts	Corn Earworm*	3/4 – 3	21	48 hrs	
	Potato Leafhopper				
	Fall Armyworm				
	Beet Armyworm	1 1/4 - 3			
	Green Cloverworm Velvetbean Caterpillar Cabbage Looper Soybean Looper ** Thrips Granulate Cutworm	1 1/2 – 3			
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not feed treated vines. * ROTAM METHOMYL 29LV has ovicidal and larvicidal control on corn earworm. **Soybean Looper is difficult to control. Do not apply to worms greater than 1/2" long. Use higher rate for severe infestations.				
Pears Northeast only	Green Fruitworm Oblique banded Leafroller	1 1/2 - 3*	7	48 hrs	
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Apply in a minimum of 50 gallons of water per acre.				
Peas (succulent) Including: Pigeon peas Chick peas Garbanzo beans Dwarf peas Garden peas Green peas English Peas Field peas Edible pod peas	Alfalfa Looper Cabbage Looper* Pea Aphid Beet Armyworm Saltmarsh Caterpillar Variegated Cutworm	1 1/2 - 3	1 - Peas 5 - Forage 14 - Hay	48 hrs	
	Alfalfa Caterpillar Armyworm Green Cloverworm	3/4 - 3			
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop . Do not make more than 6 applications per crop; minimum interval between treatments is 3 days. * Do not use for Cabbage Loopers in AL & GA.				
	Pecans Southeast only	Aphids	1 1/2 - 3	30	48 hrs
		Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 7 applications per crop.			
Peppers Including: Bell Hot Pimentos Sweet	Loopers Beet Armyworm Green Peach Aphid Armyworm Fall Armyworm	1 1/2 – 3	3	48 hrs	
	Variegated Cutworm	3/4 – 1 1/2			
	European Corn Borer	3			
		Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop.			

	Do not make more than 10 applications per crop.			
Pomegranates	Omnivorous Leafroller	3	14	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Potato	Tuberworm* Loopers Aphids Beet Armyworm Leafhoppers Fall Armyworm	1 1/2 - 3	6	48 hrs
	Variegated Cutworm Flea Beetles	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL2 9LV per acre per crop. Do not make more than 10 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Repeat applications of ROTAM METHOMYL 29LV on a 5-7 day schedule, or longer as needed, to control tuber worm populations. An application schedule of effective insecticides with different modes of action may be needed to keep foliar feeding larval populations as low as possible prior to harvest to reduce the risk of larval damage to the tubers. Failure to adequately control tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage.			
Rye	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			
Sorghum Including: Sudangrass (except Sweet Sorghum)	Sorghum Webworm	1 1/2*	14**	48 hrs
	Sorghum Midge --Apply when 50% bloom and 3-5 days later if needed. Fall Armyworm (Budworm) Beet Armyworm Corn Earworm Armyworm	3/4 - 1 1/2*		

Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Minimum of 10 gallons per acre by ground or 2 gallons per acre by air. ** Do not apply within 14 days of feeding forage or cutting for hay.				
Soybeans	Green Cloverworm Velvetbean Caterpillar Mexican Bean Beetle Corn Earworm - Light to moderate Infestations	2/5 - 3/4 (see Insect Predator section)	14 - Soybeans 3 - Forage 12 - Hay	48 hrs
	Corn Earworm - Moderate to severe infestations	3/4 - 1 1/2		
	Soybean Aphid	1/2 - 1		
	Beet Armyworm Salt Marsh Caterpillar Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper - Light to moderate infestations	3/4 - 1		
	Silver Spotted Skipper - Moderate to severe infestations	1 - 1 1/2		
	Do not apply more than 4.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			
Spinach	Alfalfa Looper Cabbage Looper Beet Armyworm Fall Armyworm	1 1/2 - 3	7	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply when minimum daily temp. is 32° F, or lower. Do not apply to seedlings less than 3" diameter. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Sugar Beet	Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstripe Armyworm*	3/4 - 3	30 - Tops 21- Roots	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. *Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control beet armyworm, aphids and western yellowstriped armyworm. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.			
Summer Squash* Including:	Looper Tobacco Budworm	1 1/2 - 3	1 1/2 pt. -- 1 day over 1 1/2 pt.-- 3 days	48 hrs

Crookneck squash Straightneck squash Scallop squash Vegetable marrow Spaghetti squash Hyotan Cucuzza Hechima Chinese okra Bitter melon Balsam pear Balsam apple Chinese Cucumber	Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm			
Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop. * Fruit of the Gourd (Cucurbitaceae) family that are consumed when immature, 100% of the fruit is edible cooked or raw, once picked cannot be stored, has a soft rind which is easily penetrated, and if seeds were harvested they would not germinate.				
Tangelo, Tangerine CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix, Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Tobacco (Except shade)	Flea Beetle Hornworm	3/4 - 1 1/2	5 - Flue cured 14 - Air or fire cured	48 hrs
	Loopers Aphids Tobacco Budworm Fall Armyworm	1 1/2		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.			
Tomato (Including Tomatillos*)	Tomato Fruitworm Aphids Hornworm Loopers Beet Armyworm Southern Armyworm Pinworm Armyworm Fall Armyworm	1 1/2 - 3	1	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 16 applications per crop. * For tomatillos do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.			
Turf (For use on sod farms only)	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	3 (1.1 fl. ozs. per 1000 sq. ft.)		48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Do not graze or feed.			
Wheat	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs

Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.

Do not make more than 4 applications per crop.

Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.

*Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.

**Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in a tightly closed container in a cool, dry place.

Pesticide Disposal: Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal (Nonrefillable container 5 gallons or less): Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

Residue Removal: Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container: Refill this container with Rotam Methomyl 29LV containing methomyl only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Use standard industry practices for cleaning refillable containers.

Spills: For minor spills, leaks, etc., follow precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

per PRN
start by
copy
Dump

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Rotam Agrochemical Company Limited or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Rotam Agrochemical Company Limited and Seller harmless for any claims relating to such factors.

Rotam Agrochemical Company Limited warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Rotam Agrochemical Company Limited, and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW ROTAM LTD MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law, Rotam Agrochemical Company Limited or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ROTAM AGROCHEMICAL COMPANY LIMITED AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ROTAM AGROCHEMICAL COMPANY LIMITED OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Rotam Agrochemical Company Limited and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Rotam Agrochemical Company Limited.

Manufactured by:
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Registered: [TBA]

[Back Page of Booklet - remains on the container when booklet is removed]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP 1A INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
--------------------------	------------------

Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimide)	29%
--	-----

<u>Inert Ingredients</u>	71%
--------------------------	-----

TOTAL	100%
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EPA Reg. No. 83100-TBA

EPA Est. No.: TBA

Refer to inside label booklet for Directions for Use.

KEEP OUT OF REACH OF CHILDREN

~~WARNING~~

DANGER
PELIGRO

POISON

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

(N-Methyl Carbamate insecticide)

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. FATAL IF SWALLOWED. CONTAINS METHANOL; MAY CAUSE BLINDNESS. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.

Do not get in eyes or on clothing. Wear protective eyewear. Harmful if inhaled or absorbed through skin. Avoid contact with skin or breathing spray mist. Wash hands thoroughly with soap and water after handling.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on the ROTAM METHOMYL 29LV label and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation.

The product shows potential explosive properties when heated to elevated temperatures.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. ~~Open dumping is prohibited.~~

thightly closed in original container
Pesticide Storage: Store in a tightly closed container in a cool, dry place.

Pesticide wastes are acutely hazardous.
Pesticide Disposal: ~~Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill~~

~~approved for pesticides.~~ Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Non-refillable container
Container Disposal (Nonrefillable container 5 gallons or less): Do not reuse this container ~~to hold materials other than pesticides or dilute pesticides (rinsate).~~ After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

Residue Removal: Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container: Refill this container with Rotam Methomyl 29LV containing methomyl only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Use standard industry practices for cleaning refillable containers.

Spills: For minor spills, leaks, etc., follow precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

Registered:

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons



Electronic versions of the labels for 83100-ET, 83100-EI and 81598-O

Frank Sobotka o Thomas Harris
:

03/09/2011 10:43 AM

See Attached documents per our phone conversation.

Dr. Frank E. Sobotka, Senior Partner
IPM Resources LLC
4032 Crockers Lake Blvd.
Suite 818
Sarasota, FL 34238
PH: 215 497-9501
FX: 215 497-9502



083100-000ET.20110308.29LV Primary.pdf 083100-000EI.20110308.90SP Primary.pdf 081598-000O.20110308.Tech Primary.pdf

Memorandum

Jon
re submission?

Date: 01 / 13 / 11

To: PM:07, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: ☒ fully accepted submission
☐ partially accepted submission
☐ rejected submission

Message assign to Tom / Code 346-
Jon - they should not submit any prod. data
data of an



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

January 13, 2011

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

FRANK E. SOBOTKA, PH.D.
IPM RESOURCES LLC
ROTAM AGROCHEMICAL COMPANY LIMITED
7/F CHEUNG TAT CENTRE
4032 CROCKERS LAKE BLVD., STE 818
SARASOTA, FL 43238-

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 07-JAN-11. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

Receipt for Section 3

S: 888550

Resubmission: ☒ Yes ☐ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☐ Yes ☒ No

Application Type: New Registration

Billable: ☐ Yes ☒ No

Company: 83100 ROTAM AGROCHEMICAL COMPANY LIMITED

V

Risk Manager: Registration Division, Risk Management Team 7

Product #: 83100-ET

Product Name: ROTAM METHOMYL 29LV INSECTICIDE

Override#:

Me Too Section3: 352-384

Me Too Product Name: DUPONT LANNATE LV INSECTICIDE

Application Date: 03-Jan-2011

OPP Rec'd Date: 07-Jan-2011

Front End Date: 07-Jan-2011

Risk Manager Send Date: 07-Jan-2011

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:
addendum to MRID 48223901 (product chemistry group A)

New Ingredient Request Date:

New Ingredient Received Date:

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

Print Letter

Enter More Information

Tracking

Receipt Content

Study

View/Edit

IPM Resources LLC

4032 Crockers Lake Blvd., Suite 818, Sarasota, FL 34238 Phone: (215) 497-9501 Fax: (215) 497-9502

"an intellectual property management resource company"

January 03, 2011

VIA UPS EXPRESS

hebert.john@epa.gov

[REF. ☎ 1-703-308-6249]

Document Processing Desk (REGFEE)
Office of Pesticide Programs (7504P)
U. S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501
ATTN: John Hebert PM 7

ignore
superseded by data submitted
3/10/11

SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide
Submission of Addendum to Volume 1-R (ADDENDUM I)
EPA File Symbol 83100 - ET

Dear Mr. Hebert :

The purpose of this letter is to transmit to the Agency on behalf of Rotam Agrochemical Company Limited an Addendum (ADDENDUM I) to MRID 48223901 (Volume 1-R/Product Chemistry Group A) for the above subject Product Submission in review.. Rotam is requesting that a new MRID number be issued for this report, and, the report addended to MRID 48223901 for review.

Addendum I adds a second Confidential Statemet of Formula (Alternative CSF) with supporting information on the Products Identity and Disclosure of Ingredients, including Manufacturing Process, for an Alternative Formulation containing a colorant. The specified Colorant (inert dye) is a Food Grade Colorant approved for direct application and packaging of food products.

The addition of a colorant incorporates better stewardship of the product by allowing the end-user to identify the presence of the product in the tank when mixing and applying the product.

Rotam trusts that the Agency will give this use special consideration when evaluating the products "significant similarity" in composition with respect to FIFRA Section 3(c)(2)(b)(i). The following documents are enclosed with this submission:

Administrative Materials: (MRID No.: _____)

- Transmittal Form (EPA Form 8570-1)
- Confidential Statement of Formula (EPA Form 8570-4), 2 Copies

John Hebert, PM 7
EPA Registrations Branch
January 03, 2011

Page 2

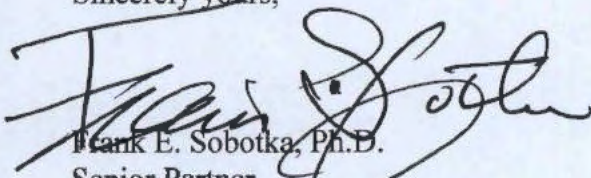
SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide/Continued
EPA File Symbol 83100 - ET

Three copies each of the following:

VOLUME NO.	DESCRIPTION	OPPTS GUIDELINE REF. NO.	MRID NO.
1-R ADDENDUM I	Product Identity & Disclosure of Ingredients, Including Manufacturing Process/Rotam Methomyl 90SP Insecticide [Report No.: METHMYL 29LV]	Group A 830.1550 830.1600 830.1650	48343701

We appreciate your assistance with this Application. If you have any questions or need additional information, please do not hesitate to contact us at any time.

Sincerely yours,


Frank E. Sobotka, Ph.D.
Senior Partner
IPM Resources LLC (Agent)

ATT:



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Rotam Agrochemical Company Ltd / 83100	2. EPA Product Manager John Hebert	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Rotam Methomyl 29LV Insecticide (83100- ET)	PM# 7	
5. Name and Address of Applicant (Include ZIP Code) ROTAM Agrochemical Company Limited C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 352-384 Product Name DuPont Lannate LV	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of Addendum (Addendum I) to Volume 1-R Product Chemistry Group A (MRID 48223901) for Rotam Methomyl 29LV Insecticide (83100-ET). The Addendum adds an Alternative Confidential Statement of Formula (CSF), adding use of a Food Use Colorant into the Basic Formulation.

Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1qt, 1 gal, 2.5 gal, 15 gal, bulk	
5. Location of Label Directions <input checked="" type="checkbox"/>		6. Manner in Which Label is Affixed to Product Printed or glued <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled <input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Frank E. Sobotka, Ph.D.	Title Agent	Telephone No. (Include Area Code) 215 497-9501	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 	3. Title Agent		
4. Typed Name Frank E. Sobotka, Ph.D.	5. Date January 03, 2011		

21-Day Screen Completed by
Contractor

21-Day Expires on 10-5-10

Jacket # 83100-ET
MRID# 482239

Content Screen: Recommended to
Pass/Fail

86-5 Review: Passed/Failed/NA

Transfer This Jacket to:

STEPHEN SCHAIBLE

PM-07

Completion of 21-Day Content Screen


PM- 7

EPA Reg. # (File Symbol) 83100-ET

Decision # D

Data package delivered to
you on 10/1/10.
(date)

Jacket/Mini-jacket will be
transferred to you today.
(Pick up from Document Center)

Thank you, 

Registration Division's 21-Day Content Team

To the Document Center (ITRMD)

*Please transfer jacket/mini-jacket to the Product Manager Team circled below:

Minor Use Section: **PM -5**

Insecticide Branch: **PM -10** **PM-13**

Herbicide Branch: **PM-23** **PM-25**

Fungicide Branch: **PM-20** **PM-21** **PM-22**

Insect/Rodent Branch: **PM-1** **PM-7**

*Reminder to PM – If applicable, pick-up data from the Screening Room.

Processed by RD's Completeness Check Team

Steve Schaibb
(Team Member Signature)

10/1/10
(Date)

83100 ET
9/30/10

Memorandum

Date: 09 / 28 / 10

To: PM:07, Regulatory Manager

From: Information Services Branch, ITRMD

Your receipt of this data submission is not an indication that MRIDs for the enclosed studies have been posted to OPPIN.

We expect that it will be approximately 5 days from the above date before the study-level data is available in OPPIN.

If you have any questions about this process, please contact Teresa Downs (305-5363).

This is a: ☒ fully accepted submission
☐ partially accepted submission
☐ rejected submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

September 28, 2010

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

IPM RESOURCES LLC
ROTAM AGROCHEMICAL COMPANY LIMITED
7/F CHEUNG TAT CENTRE
4032 CROCKERS LAKE BLVD., STE 818
SARASOTA, FL 43238-

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 14-SEP-10. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

Receipt for Section 3

S: 882190

Resubmission: ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☒ Yes ☐ No

Application Type: New Registration

Billable: ☒ Yes ☐ No


Company: 83100 ROTAM AGROCHEMICAL COMPANY LIMITED V


Risk Manager: Registration Division, Risk Management Team 7


Product #: 83100-ET Product Name: ROTAM METHOMYL 29LV INSECTICIDE

Override#:

Me Too Section3: 352-384 Me Too Product Name: DUPONT LANNATE LV INSECTICIDE

Application Date: 08-Sep-2010 

OPP Rec'd Date: 14-Sep-2010 

Front End Date: 15-Sep-2010 

Risk Manager Send Date:

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

New registration

New Ingredient:

Request Date:

New Ingredient:

Received Date:

Form A: ☐ Signature Date:

Form B: ☐ Signature Date:

Print Letter

Enter More Information

Tracking

Receipt Content

Study

CSF

View/Edit

IPM Resources LLC

482239-00

4032 Crockers Lake Blvd., Suite 818, Sarasota, FL 34238 Phone: (215) 497-9501 Fax: (215) 497-9502

"an intellectual property management resource company"

September 10, 2010

VIA UPS EXPRESS

hebert.john@epa.gov

[REF. # 1 -703-308-6249]

Document Processing Desk (REGFEE)
Office of Pesticide Programs (7504P)
U. S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501
ATTN: John Hebert PM 7

SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide
EPA File Symbol 83100 - _____

Dear Mr. Hebert :

The purpose of this letter is to transmit to the Agency on behalf of ROTAM AGROCHEMICAL COMPANY LTD. a "Me Too" application to register Rotam Methomyl 29LV Insecticide. This product is similar or identical in composition and labeling to DuPont Lannate LV (EPA Reg. No. 352-384).

All data to support this registration are included in this submission, or cited using cite-all method of data support, except for two Group B Physical/Chemical Property studies, Storage Stability and Corrosion Characteristics. These two studies will be conducted and a report sent to the Agency upon completion.

This End Use Product will be formulated using Rotam Methomyl Technical. A Formulator's Exemption Statement has been included in this submission. Please note that an application to support registration of Rotam Methomyl Technical was submitted to the Agency approximately one week earlier.

John Hebert, PM 7
EPA Registrations Branch
September 10, 2010

Page 2

**SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide/
Continued EPA File Symbol 83100 - To be Added**

The following are enclosed in this submission:

Administrative Materials: (MRID No.: _____)

- Transmittal Form (EPA Form 8570-1)
- PRIA Prepay Receipt
- Certification With Respect to Citation of Data (EPA Form 8570-34)
- Data Matrix (EPA Form 8570-35) w/Redacted version
- Formulator's Exemption Statement (EPA Form 8570-27)
- Confidential Statement of Formula (EPA Form 8570-4), 2 Extra Copies
- Draft Labeling Rotam Methomyl 29LV Insecticide, 5 Copies
- Three copies each of the following:

VOLUME NO.	DESCRIPTION	OPPTS GUIDELINE REF. NO.	MRID NO.
1-R	Product Identity & Disclosure of Ingredients, Including Manufacturing Process & Discussion of Formation of Impurities/Rotam Methomyl 29LV Insecticide [Report No.: METHMYL 29LV]	Group A 830.1550 830.1600 830.1650 830.1670	48223901
2	VOLUME 2 NOT SUBMITTED		
3	Enforcement Analytical Method (Active Ingredient Content)/ Rotam Methomyl 29LV Insecticide[Report No.:RA714201]	830.1800	48223902

John Hebert, PM 7
EPA Registrations Branch
September 10, 2010

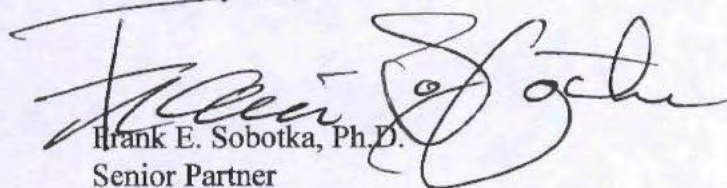
Page 3

**SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide/
Continued EPA File Symbol 83100 - To be Added**

4	Determination of Physical and Chemical Properties of Rotam Methomyl 29LV Insecticide [Report No.: RA7142(02-15)]	Group B 830.6302 830.6303 830.6304 830.6313 830.6314 830.6315 830.6316 830.6318 830.7000 830.7050 830.xxxx 830.xxxx 830.xxxx 830.xxxx	48223903
5	THIS VOLUME 5 NOT SUBMITTED		
6	Acute Toxicology Studies Rotam Methomyl 29LV Insecticide [Report No.: 22668 to 22673]	870.1100 870.1200 870.1300 870.2400 870.2500 870.2600	48223904

We appreciate your assistance with this Application. If you have any questions or need additional information, please do not hesitate to contact us at any time.

Sincerely yours,



Frank E. Sobotka, Ph.D.
Senior Partner
IPM Resources LLC (Agent)

ATT:

NEW APPLICATIONS

DATE: 9/15/10

FILE NUMBER: 83100-ET

FEP (OPPIN ENTRY) per 9/15/10
(Initial & date)

FILE ROOM: _____
(Initial & date)

SIG: _____
(Initial & date)

FILE ROOM: _____
(Initial & date)

X ASSIGN TO PM 7 (NO DATA)

____ JACKET TO SHELF (DATA)

PRIA 2 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

21 Day Screen Start Date: 9-14-10 3/23/09
 Experts In-Processing Signature: B. R Date 9-16-10 Fee Paid: Yes ☒
 Division management contacted on issues No ☐ Yes ☐ Date _____

EPA Reg. Number: <u>83100-EI</u>		EPA Receipt Date: <u>9-14-10</u>				
Items for Review				Yes	No	N/A*
1	Application Form (EPA Form 8570-1)(link to form) signed & complete including package type			X		
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4) (Link to form)			X		
	a) All inerts (link to http://www.epa.gov/opprd001/inerts/), including fragrances, approved for the proposed uses (see Footnote A)	yes	no			
		X				
3	Certification with Respect to Citation of Data (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack)			X		
	Certificate and data matrix consistent			X		
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	yes	no			
	If applicable, is there a letter of Authorization for exclusive use only.					
4	Formulator's Exemption Statement (EPA Form 8570-27) (Link to form) completed and signed (N/A if source is unregistered or applicant owns the technical)			X		
	Data Matrix (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack)			X		
5	a) Selective Method (Fee category experts use)	yes	no			
	b) Cite-All (Fee category experts use)	X				
	c) Applicant owns all data (Fee category experts use)					
6	5 Copies of Label (link to http://www.epa.gov/oppfead1/labeling/lrm/) (Electronic labels on CD are encouraged and guidance is available)(link to http://www.epa.gov/pesticides/regulating/registering/submissions/index.htm#labels)			X		

7	Is the data package consistent with PR Notice 86-5 (link to PRN 86-5)	X		
8	Notice of Filing (link to http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm) included with petitions (link to http://www.epa.gov/pesticides/regulating/tolerances.htm)			X
9	If applicable for conventional applications, reduced risk rationale (link to http://www.epa.gov/opprd001/workplan/reducedrisk.html)			X
10	Required Data (link to http://www.epa.gov/pesticides/regulating/data_requirements.htm) and/or data waivers. See Footnote C.			
	a) List study (or studies) not included with application			

Comments:

- Inerts approved for food use under 40 CFR 180.920, pre harvest app.
- According to the registrant, guidelines: 830.6315, 6316, 6319, 6320, 6321, 7100 were not submitted because they don't apply to the product properties of this product. (See data matrix footnotes)
Guideline 830.1700 was not submitted.
Efficacy data was not submitted.
- Contacted registrant on 09/20 for the following deficiencies:
 - certification form: should be selective method, not cite-all
 - formulations and csf: the source registration number is incomplete.According to the registrant, this reg # was submitted a week earlier, refer to the cover letter for his explanation.
Registrant sent certification form on: 09/21/10
- Studies passed 8b-5 Review.

Jacket Failed: left for the PM to decide if the guidelines submitted are sufficient to support this product.

JB 09/28

MRID: 482261

* N/A – Not Applicable

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses **even if a product is currently registered** by consulting the inert Web3

site [link to <http://www.epa.gov/opprd001/inerts/lists.html>] and if the inert is not approved, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch [Link to http://www.epa.gov/opbpbpd1/biopesticides/contacts_bppd.htm].

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information [link to <http://www.epa.gov/opprd001/inerts/tips.pdf>] must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R311, R312 or R313), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

Script for Rejection Phone call

Contact Name: Frank Sobotka
Phone #: 215-497-9501
Email:

First Call/Initials:

Date: 09/20/10
Time: 12:00

Second Call/Initials:

Date:
Time:

This is _____, EPA contractor.

I'm calling regarding your submission in support of

83100-E1 Rotam Methomyl 90SP Insecticide.

83100-ET Rotam Methomyl 29LV Insecticide.

We have found the following deficiencies regarding:

PR Notice 86.5: Yes or No

Volume/Study Title: 482261 ✓ passed
(ET) 482239

→ 02: VI (pg 6, 60)

→ 03: FR (111, 149, 187, 224, 348, 415)
GR (296)

Volume/Study Title:

Volume/Study Title:

Additional volumes continued on back of page: Yes or No

Application Package: Yes or No

83100-E1 { * certification → section I should be selective method
+
83100-ET { * Formulations → registered source reg # incomplete, why?
✓ (is it still unregistered).

These deficiencies have been approved by EPA.

The corrections can be faxed to 703-305-5060/Attn: _____.

Second Call/Email:

If we do not receive the corrections by _____, we will process your submission, accordingly. Please direct all future calls and correspondence to the appropriate EPA Risk Manager.



FW: Revised Rotam Methomyl 29LV/90SP 8570-34 Form

Frank Sobotka o brandon.jennifer

09/21/2010 10:14 AM

History: This message has been replied to.

Resending, wrong spelling of your name. This one should get to you.

Dr. Frank E. Sobotka, Senior Partner
IPM Resources LLC
4032 Crockers Lake Blvd.
Suite 818
Sarasota, FL 34238
PH: 215 497-9501
FX: 215 497-9502

Personal privacy information

From: [REDACTED]
To: brandon.gennifer@epa.gov
Subject: Revised Rotam Methomyl 29LV/90SP 8570-34 Form
Date: Tue, 21 Sep 2010 10:05:40 -0400

See attached revised 8570-34 Form for Both Subject Products. Thanks for your assistance.

Dr. Frank E. Sobotka, Senior Partner
IPM Resources LLC
4032 Crockers Lake Blvd.
Suite 818
Sarasota, FL 34238
PH: 215 497-9501
FX: 215 497-9502



Rotam Methomyl 29LV 8570-34 form 09_08_10 rev.pdf



Rotam Methomyl 90SP 8570-34 form 09_08_10 rev.pdf



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

September 15, 2010

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-439801
EPA File Symbol or Registration Number: 83100-ET
Product Name: ROTAM METHOMYL 29LV INSECTICIDE
EPA Receipt Date: 14-Sep-2010
EPA Company Number: 83100
Company Name: ROTAM AGROCHEMICAL COMPANY LIMITED

FRANK E. SOBOTKA, PH.D.
IPM RESOURCES LLC
ROTAM AGROCHEMICAL COMPANY LIMITED
7/F CHEUNG TAT CENTRE
4032 CROCKERS LAKE BLVD., STE 818
SARASOTA, FL 43238-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R310

NEW PRODUCT;NON-FAST TRACK (INCLUDES REVIEWS OF PRODUCT
CHEMISTRY;ACUTE TOXICITY;PUBLIC HEALTH PEST EFFICACY);

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee
Ombudsman at (703) 308-9362.

Sincerely,

Front End Processing Staff

Information Technology & Resources Management Division

Fee for Service

882190#~

This package includes the following

- ☒ New Registration
- ☐ Amendment

- ☒ Studies? ☐ Fee Waiver?
- ☐ volpay % Reduction: _____

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. 7

Receipt No.

S- 882190

EPA File Symbol/Reg. No.

83100-ET

Pin-Punch Date:

9/14/2010

☐ This item is NOT subject to FFS action.

Action Code:

Requested: R-310

Granted: R-310

Amount Due: \$ 4578.00

Parent/Child Decisions:

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: Venus Gueh

Date: 9/15/10

Remarks:

Formulator's exemption form in complete.
~~Also attached~~

Receipt for Section 3					
S:	862190	Resubmission:	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Regulatory Type:	Product Registration - Section 3	Fee For Service:	<input checked="" type="radio"/> Yes <input type="radio"/> No	<div>Print Letter</div> <div>Enter More Information</div> <div>Tracking</div>	
Application Type:	New Registration	Billable:	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Company:	83100 ROTAM AGROCHEMICAL COMPANY LIMITED		V		
Risk Manager:	Registration Division, Risk Management Team 7				
Product #:	83100-ET	Product Name:	ROTAM METHOMYL 29LV INSECTICIDE		
Override#:					
Me Too Section3:	352-384	Me Too Product Name:	DUPONT LANNATE LV INSECTICIDE		
Application Date:	08-Sep-2010	OPP Rec'd Date:	14-Sep-2010	<div>Receipt Content</div> <div>Study</div> <div>CSF</div> <div>View/Edit</div>	
Front End Date:	15-Sep-2010	Risk Manager Send Date:			
FFS Due Date:		Negotiated Due Date:			
OPP Target Date:					
Fast Track:	<input type="checkbox"/>	New Ingredient:	<input type="checkbox"/>		
Receipt Description:		<div>New registration</div>			
Form A:	<input type="checkbox"/>	Signature Date:		Form B:	<input type="checkbox"/>

FEE FOR SERVICE

Pay.Gov Payment Confirmation

From: **paygovadmin@mail.doc.twai.gov**

Personal privacy information

Sent: Fri 9/10/10 9:23 AM

To: [REDACTED]

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

Your transaction has been successfully completed.

Transaction Summary

Application Name: PRIA Service Fees

Pay.gov Tracking ID: 251ERU90

Agency Tracking ID: 74137336097

Name On Account: IPM Resources LLC

Transaction Type: ACH Debit

Transaction Amount: \$4,578.00

Payment Date: Sep 13, 2010

Account Type: Business Checking

Routing Number: 031000503

Account Number: *****9541

Transaction Date: Sep 10, 2010 9:23:08 AM

Number of Payments Scheduled: 1

Frequency: OneTime

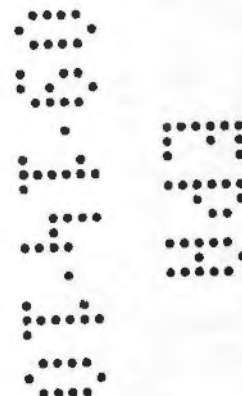
Decision Number:

Registration Number:

Company Name: Rotam Agrochemical Compan

Company Number: 83100

Action Code: R3100



IPM Resources LLC

4032 Crockers Lake Blvd., Suite 818, Sarasota, FL 34238 Phone: (215) 497-9501 Fax: (215) 497-9502

"an intellectual property management resource company"

September 10, 2010

VIA UPS EXPRESS

hebert.john@epa.gov

[REF. # 1 -703-308-6249]

Document Processing Desk (REGFEE)
Office of Pesticide Programs (7504P)
U. S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501
ATTN: John Hebert PM 7

SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide
EPA File Symbol 83100 - _____

Dear Mr. Hebert :

The purpose of this letter is to transmit to the Agency on behalf of ROTAM AGROCHEMICAL COMPANY LTD. a "Me Too" application to register Rotam Methomyl 29LV Insecticide. This product is similar or identical in composition and labeling to DuPont Lannate LV (EPA Reg. No. 352-384).

All data to support this registration are included in this submission, or cited using cite-all method of data support, except for two Group B Physical/Chemical Property studies, Storage Stability and Corrosion Characteristics. These two studies will be conducted and a report sent to the Agency upon completion.

This End Use Product will be formulated using Rotam Methomyl Technical. A Formulator's Exemption Statement has been included in this submission. Please note that an application to support registration of Rotam Methomyl Technical was submitted to the Agency approximately one week earlier.

John Hebert, PM 7
EPA Registrations Branch
September 10, 2010

Page 2

**SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide/
Continued EPA File Symbol 83100 - To be Added**

The following are enclosed in this submission:

Administrative Materials: (MRID No.: _____)

- Transmittal Form (EPA Form 8570-1)
- PRIA Prepay Receipt
- Certification With Respect to Citation of Data (EPA Form 8570-34)
- Data Matrix (EPA Form 8570-35) w/Redacted version
- Formulator's Exemption Statement (EPA Form 8570-27)
- Confidential Statement of Formula (EPA Form 8570-4), 2 Extra Copies
- Draft Labeling Rotam Methomyl 29LV Insecticide, 5 Copies
- Three copies each of the following:

VOLUME NO.	DESCRIPTION	OPPTS GUIDELINE REF. NO.	MRID NO.
1-R	Product Identity & Disclosure of Ingredients, Including Manufacturing Process & Discussion of Formation of Impurities/Rotam Methomyl 29LV Insecticide [Report No.: METHMYL 29LV]	Group A 830.1550 830.1600 830.1650 830.1670	
2	VOLUME 2 NOT SUBMITTED		
3	Enforcement Analytical Method (Active Ingredient Content)/ Rotam Methomyl 29LV Insecticide[Report No.:RA714201]	830.1800	

John Hebert, PM 7
EPA Registrations Branch
September 10, 2010

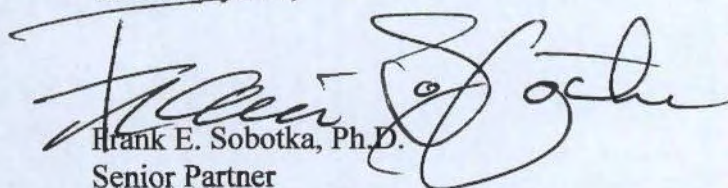
Page 3

**SUBJECT: Application for Registration - Rotam Methomyl 29LV Insecticide/
Continued EPA File Symbol 83100 - To be Added**

4	Determination of Physical and Chemical Properties of Rotam Methomyl 29LV Insecticide [Report No.: RA7142(02-15)]	Group B 830.6302 830.6303 830.6304 830.6313 830.6314 830.6315 830.6316 830.6318 830.7000 830.7050 830.xxxx 830.xxxx 830.xxxx 830.xxxx	
5	THIS VOLUME 5 NOT SUBMITTED		
6	Acute Toxicology Studies Rotam Methomyl 29LV Insecticide [Report No.: 22668 to 22673]	870.1100 870.1200 870.1300 870.2400 870.2500 870.2600	

We appreciate your assistance with this Application. If you have any questions or need additional information, please do not hesitate to contact us at any time.

Sincerely yours,



Frank E. Sobotka, Ph.D.
Senior Partner
IPM Resources LLC (Agent)

ATT:

Please read instructions on reverse before completing form.

Form Approved EPA Form No. 2070-0060, Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Rotam Agrochemical Company Ltd / 83100 -ET		2. EPA Product Manager John Hebert	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Rotam Methomyl 29LV Insecticide		PM# 7	
5. Name and Address of Applicant (Include ZIP Code) ROTAM Agrochemical Company Limited C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 352-384 Product Name DuPont Lannate LV	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input checked="" type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of request for Registration and Service Fee (PRIA-2003) verification.
New "me-too" End-use Registration Application (EPA PRIA No.: R310) Formulator's Exemption, Non-fast Track/6 Month Review of Product Chemistry/Acute Tox. Service Fee: \$4,578. Product: Rotam Methomyl 29LV Insecticide (EPA Reg. No.: 83100- To be Added). Contact: Rotam Agrochemical Company Limited, c/o IPM Resources LLC (Agent), 4032 Crockers Lake Blvd., Suite 818, Sarasota, FL 34238 Email: [REDACTED] Ph: 215 497-9501 FAX: 215 497-9502

Personal privacy information

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	<input type="checkbox"/> Plastic	
		If "Yes" Package wgt	No. per container	<input type="checkbox"/> Glass	
		0		<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 qt, 1 gal, 2.5 gal, 15 gal, bulk		5. Location of Label Directions <input checked="" type="checkbox"/>	
6. Manner in Which Label is Affixed to Product Printed or glued		<input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Frank E. Sobotka, Ph.D.	Title Agent	Telephone No. (Include Area Code) 215 497-9501
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Agent	
4. Typed Name Frank E. Sobotka, Ph.D.	5. Date September 08, 2010	



United States
Environmental Protection Agency
Washington, DC 20460
Formulator's Exemption Statement
(40 CFR 152.85)

Applicant's Name and Address

ROTAM AGROCHEMICAL COMPANY LIMITED
C/O IPM Resources LLC
4032 Crockers Lake Blvd.
Suite 818
Sarasota, FL 34238

EPA File Symbol/Registration Number

83100 - To be Added

Product Name

Rotam Methomyl 29LV Insecticide

Date of Confidential Statement of Formula (EPA Form 8570-4)

November 10, 2009

As an authorized representative of the applicant for registration of the product identified above, I certify that:

- (1) This product contains the following active ingredient(s):

METHOMYL

- (2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another producer, and is labeled for at least each use for which my product is proposed to be labeled.

- (3) Indicate by checking (A) or (B) below which paragraph applies:



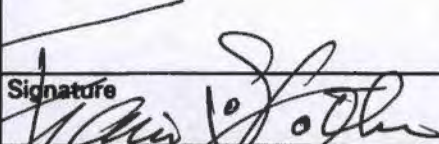
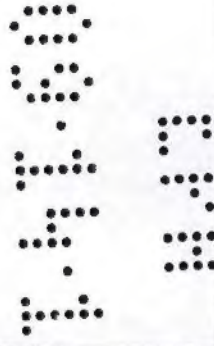
☒ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☐ (B) The Confidential Statement of Formula (CSF) (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.

- (4) The following active ingredients in this product qualify for the formulator's exemption.

Source

Active Ingredient	Product Name	Registration Number
METHOMYL		
<p><i>*Product ingredient source information may be entitled to confidential treatment*</i></p>		
Signature 	Name and Title Frank E. Sobotka, Ph.D. (Agent)	Date 11/10/09 



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Rotam Agrochemical Company Ltd., c/o IPM Resources LLC (Agent), 660 Newtown-Yardley Rd., Ste 105 Newtown, PA 18940 215 497-0501	EPA Registration Number/File Symbol 83100 - TBA
Active Ingredient(s) and/or representative test compound(s) METHOMYL	Date September 08, 2010
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) TERRESTRIAL FOOD CROP	Product Name ROTAM METHOMYL 29LV INSECTICIDE

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
--	---

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature

Date

09/08/2010 rev

Typed or Printed Name and Title

Frank E. Sobotka, Ph.D. (Agent)

R 310

End Use (EP) or Manufacturing Use (MP) product or Technical Grade of the Active Ingredient (TGA). Must submit Group A and B product chemistry data for each proposed product unless it's a 100% identical (repack): YES or NO (circle one)

Guideline No.	Group A: Product Chemistry Data Study Title	EP Data Submitted		MP Data Submitted		TGA	
		Yes	No	Yes	No	Yes	No
830.1550	Product Identity & Composition	✓					
830.1600	Description of materials used to produce the product	✓					
830.1650	Description of formulation process	✓					
830.1670	Discussion on the formation of impurities	✓					
830.1700	Preliminary analysis		✓				
830.1750	Certified limits (158.345)(CSF)	✓					
830.1800	Enforcement analytical method	✓					

Guideline No.	Group B: Product Chemistry Data Study Title	EP Data Submitted		MP Data Submitted		TGA	
		Yes	No	Yes	No	Yes	No
830.6302	Color	✓					
830.6303	Physical State	✓					
830.6304	Odor	✓					
830.6313	Stability to normal and elevated temperatures metal and metal ions						
830.6314	Oxidation/Reduction (Chemical incompatibility)	✓					
830.6315	Flammability	✓					
830.6316	Explosibility	✓					
* 830.6317	Storage stability		✓				
* 830.6319	Miscibility		✓				
* 830.6320	Corrosion Characteristics		✓				
* 830.6321	Dielectric Breakdown Voltage		✓				
830.7000	pH	✓					
830.7050	UV/ Visible Absorption						
830.7100	Viscosity (listed as 830.6318 in data matrix)	✓					
830.7200	Melting Point						
830.7220	Boiling Point						
830.7300	Density (listed as 830.7050 in data matrix)	✓					
830.7370	Dissociation Constant						
830.7550	Partition Coefficient						
830.7840	Water Solubility						
830.7950	Vapor Pressure						

Grayed out = data not required

* See data matrix footnotes

* registrant states that this product properties are such that none of these (*)

R 310

New products must either: 1) supply the product specific acute toxicity 6 pack data (listed below), or 2) provide a bridging rationale document. The bridging document directs OPP to use a currently registered set of 6 acute toxicity data and label; instead of submitting product specific data.

Guideline No.	Acute toxicity (6 pack) Study Title	Data submitted		Cited	
		Yes	No	Yes	No
870.1100	Acute Oral (LD50)	✓			
870.1200	Acute Dermal (LD50)	✓			
870.1300	Acute Inhalation (LC50)	✓			
870.2400	Acute Eye Irritation	✓			
870.2500	Acute Dermal Irritation	✓			
870.2600	Dermal Sensitization	✓			

Efficacy – which guideline is used depends on the proposed label use NOT submitted

Guideline No.	Study Title	Data submitted		Cited		Comments
		Yes	No	Yes	No	
810.3100	Soil Treatments for Imported Fire Ants		✓		✓	
810.3200	Livestock, Poultry, Fur and Wool-Bearing Animal Treatments		✓		✓	
810.3300	Treatments to Control Pests of Humans and Pets		✓		✓	
810.3400	Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments		✓		✓	
810.3500	Premises Treatments		✓		✓	
810.3600	Structural Treatments		✓		✓	
810.3800	Methods for Efficacy Testing of Termite Baits		✓		✓	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M STREET, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date	September 08, 2010	EPA Reg. No./File Symbol	83100 - TBA	Page	1 of 6
Applicant's/Registrant's Name & Address	ROTAM AGROCHEMICAL COMPANY LIMITED C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238		Product	ROTAM METHOMYL 29LV INSECTICIDE	

Ingredient METHOMYL

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group A - Product Identity, Composition and Analysis Test Guidelines					
830.1550	Product Identity Composition		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 1; CSF 11/10/09
830.1600	Description of Materials		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 1
830.1650	Description of Formulation Process		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 1
830.1670	Discussion of Formation of Impurities		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 1
830.1700	Preliminary Analysis			NA	
830.1750	Certified Limits		ROTAM AGROCHEMICAL COMPANY LTD	OWN	CSF 11/10/09
830.1800	Enforcement Analytical Methods		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 3
830.1900	Submittal of Samples			NA	
Group B - Physical/Chemical Properties Test Guidelines					
830.6302	Color		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
830.6303	Physical State		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
830.6304	Color		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4

Signature		Name and Title	Frank E. Sobotka, Ph.D. Agent	Date	09/08/2010
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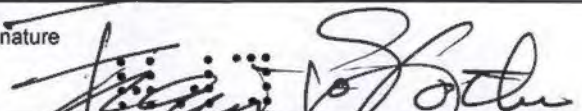
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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WASHINGTON, D.C. 20460

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DATA MATRIX

Date September 08, 2010	EPA Reg. No./File Symbol 83100 - TBA	Page 2 of 6
Applicant's/Registrant's Name & Address ROTAM AGROCHEMICAL COMPANY LIMITED C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238	Product ROTAM METHOMYL 29LV INSECTICIDE	

Ingredient METHOMYL

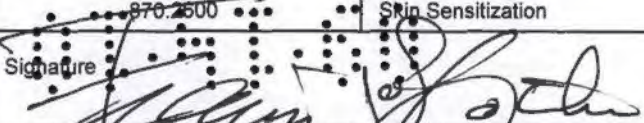
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group B - Physical/Chemical Properties Test Guidelines (Continued)					
830.6313	Stability		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
830.6314	Oxidization/Reduction		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
830.6315	Flammability		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
830.6316	Explosibility		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
830.6317	Storage Stability			NA	Footnote 1
830.6318	Viscosity		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
830.6319	Miscibility			NA	See Footnote 2
830.6320	Corrosion Characteristics			NA	Footnote 1
830.6321	Dielectric Breakdown Voltage			NA	Footnote 3
830.7000	pH		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
830.7050	Density/Relative Density		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
	Persistent Foaming		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
	Surface tension		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
	Acidity/Alkalinity		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
	Autofluorescence		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
<div> <div>Signature</div>  </div> <div> <div>Name and Title</div> <div>Frank E. Sobotka, Ph.D. Agent</div> </div> <div> <div>Date</div> <div>09/08/2010</div> </div>					

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401 M STREET, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date September 08, 2010			EPA Reg. No./File Symbol 83100 - TBA	Page 3 of 6	
Applicant's/Registrant's Name & Address ROTAM AGROCHEMICAL COMPANY LIMITED C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238			Product ROTAM METHOMYL 29LV INSECTICIDE		
Ingredient METHOMYL					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Group A - Acute Toxicity Test Guidelines					
870.1100	Acute Oral Toxicity - Rat		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 6
870.1200	Acute Dermal Toxicity - Rat		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 6
870.1300	Acute Inhalation Toxicity - Rat		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 6
870.2400	Acute Eye Irritation - Rabbit		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 6
870.2500	Acute Dermal Irritation - Rabbit		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 6
870.2600	Skin Sensitization		ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 6
Signature 			Name and Title Frank E. Sobotka, Ph.D. Agent		Date 09/08/2010

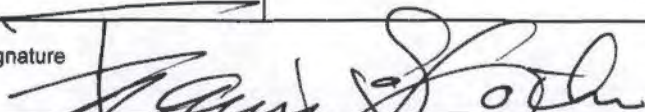
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DATA MATRIX

Date September 08, 2010		EPA Reg. No./File Symbol 81598 - TBA		Page 4 of 6	
Applicant's/Registrant's Name & Address		Product			
ROTAM LTD C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238		ROTAM METHOMYL 29LV INSECTICIDE			
Ingredient METHOMYL					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	Generic Data [FORMULATOR'S EXEMPTION]	CITE - ALL	E. I. DU PONT DE NEMOURS AND CO., INC. DUPONT CROP PROTECTION (S300/427) PO BOX 30 NEWARK, DE 19714-0030	PAY	
			BAYER CROPS SCIENCE LP 2 T.W. ALEXANDER DRIVE RESEARCH TRIANGLE PARK, NC 27709		
			FARNAM COMPANIES INC D/B/A CENTRAL LIFE SCIENCES 301 WEST OSBORN ROAD PHOENIX, AZ 85013		
			WELLMARK INTERNATIONAL 1501 E. WOODFIELD ROAD SUITE 200 WEST SCHAUMBURG, IL 60173		
			DENKA INTERNATIONAL 4 TAR ROCK ROAD WESTPORT, CT 06880		
			BURLINGTON SCIENTIFIC CORPORATION 71 CAROLYN BLVD FARMINGDALE, NY 11735		
			SPRAY DRIFT TASK FORCE MCKENNA, LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006		
			AGRICULTURAL REENTRY TASK FORCE 1360 STREET, S.W. WASHINGTON, DC 20005		
Signature 			Name and Title Frank E. Sobotka, Ph.D. Agent		Date 09/08/2010

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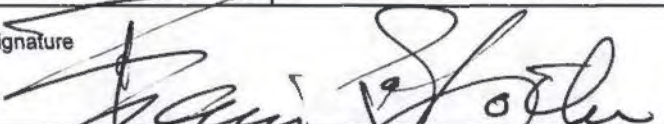
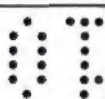
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Applicant's/Registrant's Name & Address ROTAM LTD C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238	Product ROTAM METHOMYL 29LV INSECTICIDE	

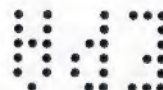
Ingredient METHOMYL

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	Generic Data [FORMULATOR'S EXEMPTION]	CITE - ALL	TROY BIOSCIENCES INCORPORATED C/O TROY CORPORATION 8 VREELAND ROAD FLORHAM PARK, NJ 07932	PAY	
			GLADES FORMULATING CORP 30856 ROCKY ROAD GREELEY, CO 80631-9375		
			AGRICULTURAL HANDLERS EXPOSURE TASK FORCE PO BOX 509 MACON, MO 63552		
			FIFRA ENDANGERED SPECIES TASK FORCE, L C/O HAROLD HIMMELMAN (BEVERIDGE & DIAMOND) 1350 I STREET, NW WASHINGTON, DC 20005		
			RESIDENTIAL EXPOSURE JOINT VENTURE 900 17TH STREET, NW, SUITE 300 WASHINGTON, DC 20006		
			NOVARTIS ANIMAL HEALTH US, INC. 3200 NORTHLINE AVENUE, SUITE 300 GREENSBORO, NC 27408		

Signature 		Name and Title Frank E. Sobotka, Ph.D. Agent	Date 09/08/2010
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Date September 08, 2010

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Applicant's/Registrant's Name & Address ROTAM AGROCHEMICAL COMPANY LIMITED
C/O IPM Resources LLC
4032 Crockers Lake Blvd., Suite 818
Sarasota, FL 34238

Product

ROTAM METHOMYL 29LV INSECTICIDE

Ingredient METHOMYL

FOOTNOTES:

1. One year Commercial Stability (830.6317) and Corrosion Characteristics (830.6320) will be conducted and a report sent to the USEPA upon completion.
2. Product is not an emulsifiable liquid.
3. Not registered for use around electrical power boxes.

07-47-00

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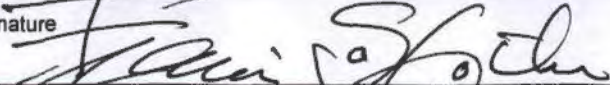
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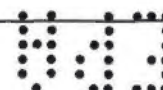
Ingredient METHOMYL

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
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			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 1
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 1
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 1
				NA	
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	CSF 11/10/09
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 3
				NA	
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4

Signature 

Name and Title Frank E. Sobotka, Ph.D. Agent

Date
09/08/2010



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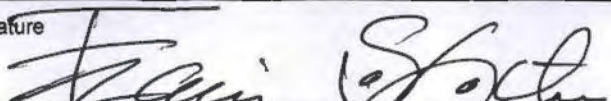
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Applicant's/Registrant's Name & Address ROTAM AGROCHEMICAL COMPANY LIMITED C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238	Product ROTAM METHOMYL 29LV INSECTICIDE	

Ingredient METHOMYL

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
				NA	Footnote 1
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
				NA	See Footnote 2
				NA	Footnote 1
				NA	Footnote 3
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			ROTAM AGROCHEMICAL COMPANY LTD	OWN	See Volume 4
			Signature		



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Applicant's/Registrant's Name & Address ROTAM AGROCHEMICAL COMPANY LIMITED
C/O IPM Resources LLC (Agent)
4032 Crockers Lake Blvd., Suite 818
Sarasota, FL 34238

Product
ROTAM METHOMYL 29LV INSECTICIDE

Ingredient METHOMYL

Guideline Reference Number

Guideline Study Name

MRID Number

Submitter

Status

Note

ROTAM AGROCHEMICAL COMPANY LTD

OWN

See Volume 6

ROTAM AGROCHEMICAL COMPANY LTD

OWN

See Volume 6

ROTAM AGROCHEMICAL COMPANY LTD

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See Volume 6

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See Volume 6

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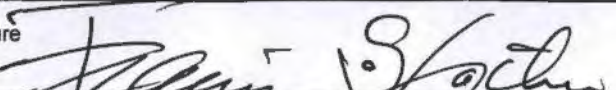
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Ingredient METHOMYL					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			E. I. DU PONT DE NEMOURS AND CO., INC. DUPONT CROP PROTECTION (S300/427) PO BOX 30 NEWARK, DE 19714-0030	PAY	
			BAYER CROPSCIENCE LP 2 T.W. ALEXANDER DRIVE RESEARCH TRIANGLE PARK, NC 27709		
			FARNAM COMPANIES INC D/B/A CENTRAL LIFE SCIENCES 301 WEST OSBORN ROAD PHOENIX, AZ 85013		
			WELLMARK INTERNATIONAL 1501 E. WOODFIELD ROAD SUITE 200 WEST SCHAUMBURG, IL 60173		
			DENKA INTERNATIONAL 4 TAR ROCK ROAD WESTPORT, CT 06880		
			BURLINGTON SCIENTIFIC CORPORATION 71 CAROLYN BLVD FARMINGDALE, NY 11735		
			SPRAY DRIFT TASK FORCE MCKENNA, LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006		
			AGRICULTURAL REENTRY TASK FORCE 1350 I STREET, N.W. WASHINGTON, DC 20005		
Signature 			Name and Title Frank E. Sobotka, Ph.D. Agent		Date 09/08/2010

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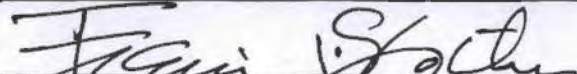
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Date September 08, 2010		EPA Reg. No./File Symbol 81598 - TBA		Page 5 of 6	
Applicant's/Registrant's Name & Address		Product			
ROTAM LTD C/O IPM Resources LLC (Agent) 4032 Crockers Lake Blvd., Suite 818 Sarasota, FL 34238		ROTAM METHOMYL 29LV INSECTICIDE			
Ingredient METHOMYL					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			TROY BIOSCIENCES INCORPORATED C/O TROY CORPORATION 8 VREELAND ROAD FLORHAM PARK, NJ 07932	PAY	
			GLADES FORMULATING CORP 30856 ROCKY ROAD GREELEY, CO 80631-9375		
			AGRICULTURAL HANDLERS EXPOSURE TASK FORCE PO BOX 509 MACON, MO 63552		
			FIFRA ENDANGERED SPECIES TASK FORCE, L C/O HAROLD HIMMELMAN (BEVERIDGE & DIAMOND) 1350 I STREET, NW WASHINGTON, DC 20005		
			RESIDENTIAL EXPOSURE JOINT VENTURE 900 17TH STREET, NW, SUITE 300 WASHINGTON, DC 20006		
			NOVARTIS ANIMAL HEALTH US, INC. 3200 NORTHLINE AVENUE, SUITE 300 GREENSBORO, NC 27408		
			Name and Title Frank E. Sobotka, Ph.D. Agent		Date 09/08/2010

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Applicant's/Registrant's Name & Address
ROTAM AGROCHEMICAL COMPANY LIMITED
C/O IPM Resources LLC
4032 Crockers Lake Blvd., Suite 818
Sarasota, FL 34238

Product

ROTAM METHOMYL 29LV INSECTICIDE

Ingredient METHOMYL

07-47-60

843

[Front Container Label – Optional if Booklet is used as front container label]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP

1A

INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
<u>Inert Ingredients</u>	71%
TOTAL	100%

EPA Reg. No. 83100-TBA

EPA Est. No.: TBA

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional Precautionary Statements on inside booklet and back panel of container and Directions for Use on inside booklet.

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons

[Booklet Cover]

PULL HERE TO OPEN ►

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP	1A	INSECTICIDE
--------------	-----------	--------------------

Rotam Methomyl 29SL Insecticide

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

(N-Methyl Carbamate insecticide)

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

[Booklet Cover Continued]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. FATAL IF SWALLOWED. CONTAINS METHANOL; MAY CAUSE BLINDNESS. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.

Do not get in eyes or on clothing. Wear protective eyewear. Harmful if inhaled or absorbed through skin. Avoid contact with skin or breathing spray mist. Wash hands thoroughly with soap and water after handling.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on the ROTAM METHOMYL 29LV label and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

Refer to inside for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations, Engineering Controls Statements, Environmental Hazards and Directions for Use.

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

Active Ingredient	By Weight
Methomyl	
(S-methyl-N-[(methylcarbamoyl)oxy]thioacetimidate)	29%
Inert Ingredients	71%
TOTAL	100%

EPA Reg. No. 83100 - TBA

EPA Est. No.: TBA

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

**Net Contents
Gallons**

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Application	
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Storage and Disposal	
Notice of Warranty	

PRECAUTIONARY STATEMENTS (Continued)
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category B on an EPA chemical-resistance category

Applicators and others exposed to the diluted spray solution must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves such as barrier laminate or butyl rubber.
- Shoes plus socks.
- Protective eyewear.

Mixers, loaders, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:

- Long sleeve shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber.
- Socks and chemical resistant footwear.
- Protective eyewear.
- Respirator as outlined below.
- Chemical resistant apron.

For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

For exposures outdoors, Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P, or HE prefilter. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other

ENGINEERING CONTROL STATEMENTS

Human flaggers must be in enclosed cabs.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must not assist in the mixing and loading operations.

USER SAFETY RECOMMENDATIONS

USERS SHOULD:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation.

DIRECTIONS FOR USE **Restricted Use Pesticide**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). REI Summary: REI grapes = 7 day; REI peaches = 4 day; REI apple, cotton, grapefruit, lemon, nectarine, orange, tangelo, tangerine = 3 day; all other WPS uses = 48 hour REI.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.

- Chemical-resistant gloves, such as barrier laminate or butyl rubber.

- Shoes plus socks.

- Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Notify workers of the application to grapes by warning them orally and by posting Warning signs at entrances to treated areas.

GENERAL INFORMATION

Chemigation: Overhead sprinkler chemigation is allowed for use in alfalfa, barley, succulent and dry beans, oats, onions, succulent peas, potatoes, rye, sugar beets, sweet corn and wheat. Drip chemigation is allowed for onions. See Federal Supplemental labeling for overhead sprinkler chemigation directions for use in sweet corn, succulent peas and succulent and dry beans; and for directions for use for drip chemigation in onions. Refer to supplemental, or Special Local Need (SLN) labeling or the crop specific sections of this label for use directions for chemigation. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN or this product label.

Do not formulate this product into other End-use products without written permission from Rotam.

ROTAM METHOMYL 29LV insecticide should be used only in accordance with directions for use on this label or in separate Rotam supplemental labeling. Rotam will not be responsible for use of the product in a manner not specified by Rotam in the product's labeling and User assumes all risk for such use.

ROTAM METHOMYL 29LV is a water soluble liquid that is applied by foliar application to control many important insect pests. ROTAM METHOMYL 29LV is mixed with water for application.

Pilots must not assist in the mixing and loading operations.

Do not apply by ground equipment within 25 feet, or by air within 100 feet of

lakes, reservoirs, rivers, estuaries, commercial fish ponds and natural, permanent streams, marshes or natural, permanent ponds. Increase the buffer zone to 450 feet from the above aquatic areas when ultra low volume application is made.

Hand-held equipment is prohibited for applications to crops. This product must be applied to crops only with mechanical ground, overhead sprinkler chemigation or aerial application equipment.

Use only in commercial and farm plantings. Not for use in home plantings. Not for use during any period after a commercial crop site is opened for public entry as a "U-Pick", "Pick Your Own" or similar operation; in no case shall preharvest applications be made after first public entry. The restricted entry interval and preharvest interval for the crop stated elsewhere on this label must be followed.

SCOUTING

Monitor insect populations to determine whether or not there is a need for application of ROTAM METHOMYL 29LV based on locally determined economic thresholds. More than one treatment of ROTAM METHOMYL 29LV may be required to control a population of pests.

BENEFICIAL ARTHROPODS

ROTAM METHOMYL 29LV at rates of 2/5 to 3/4 pint per acre helps conserve certain beneficials, including big-eyed bugs, damsel bugs, flower bugs and spiders in cotton and soybeans. While these beneficials cannot be relied upon to control pests, they are of potential value and should be monitored along with pests in pest management programs on these crops.

RESISTANCE MANAGEMENT

For resistance management, ROTAM METHOMYL 29LV insecticide is a group 1A insecticide. Repeated and exclusive use of ROTAM METHOMYL 29LV or other group 1A insecticides may lead to the build-up of resistant strains of insects in some crops. Not all members of this group have been shown to be cross-resistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different sub-groups within this group may be an acceptable part of an integrated pest management program.

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below the economic threshold. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode-of-action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of

control for your area or additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

INTEGRATED PEST MANAGEMENT

This product should be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying ROTAM METHOMYL 29LV.

Fill spray tank 1/4 to 1/2 full of water. Add ROTAM METHOMYL 29LV directly to spray tank. Mix thoroughly. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

Compatibility — Since formulations may be changed and new ones introduced, in this situation users can premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.) before applying the product. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use ROTAM METHOMYL 29LV with Bordeaux mixture (copper sulfate and hydrated lime), Du Ter triphenyltin hydroxide, lime sulfur, Rayplex iron nor in highly alkaline solutions. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

Tank Mix Sequence — Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

1. Water soluble bags.
2. Water dispersible granules
3. Wettable powders
4. Water based suspension concentrates
5. ROTAM METHOMYL 29LV and other water soluble concentrates
6. Oil based suspension concentrates
7. Emulsifiable concentrates
8. Adjuvants, surfactants, oils, soluble fertilizers, and drift retardants. Follow local practice and manufacturer's recommendation.

APPLICATION

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Follow-up treatments of ROTAM METHOMYL 29LV should be applied, as needed, to keep pest populations within threshold limits. On most crops, ROTAM

METHOMYL 29LV should be applied at 5 to 7 day intervals to maintain control. Refer to crop specific directions for use in the crop tables for more specific information on treatment intervals.

Use sufficient water to obtain thorough, uniform coverage. Since ROTAM METHOMYL 29LV is a fast acting contact insecticide, best results follow direct spraying of the target insect.

For aerial, use a minimum of 2 gals. per acre (gpa) except 10 gpa for grapes, peaches, and nectarines; 15 gpa for oranges, lemons, grapefruit, tangelos and tangerines.

ROTAM METHOMYL 29LV is recommended for use as a low volume aerial spray 0.53 gpa (2L) for cotton* and soybeans* and 1 gpa for the crops listed below providing the following conditions are met:

- equipment is adjusted to distribute spray uniformly over the spray swath,
- wind conditions and other factors such as temperature and humidity are such
- that the spray is delivered to the target area,
- local regulations do not prohibit low-volume aerial sprays,
- use rates are applied as directed on the package label or supplemental labeling for the following crops:

Alfalfa	Celery	Peas (succulent)
Anise	Collards	Peppermint
Asparagus	Corn	Peppers
Barley	Cotton	Potato
Beans	Cucumber	Rye
Broccoli	Lettuce	Soybean
Brussels sprouts	Melons	Spinach
Cabbage	Mint	Sugar beet
Carrot	Oats	Summer Squash
Cauliflower	Peanuts	Wheat

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Hereafter, use the lowest rate possible to maintain control.

* Not Registered for aerial application in a diluted volume of less than 1 gal in CA.

SPRAY TANK CLEANOUT

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

CHEMIGATION

Instructions for the Use of ROTAM METHOMYL 29LV on Alfalfa, Barley, Oats, Green and Dry Bulb Onions, Potatoes, Rye, Sugar Beets and Wheat Using Overhead Sprinkler Chemigation

Overhead chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical chemigation applications are more dilute than ground or aerial applications. For best results, it is recommended to keep the concentration of ROTAM METHOMYL 29LV as high as possible in the application. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre.

ROTAM METHOMYL 29LV is most active as a contact insecticide, although it does also have activity via ingestion of treated plants. For best results, applications of ROTAM METHOMYL 29LV should take place when the insects are active and most likely to come into direct contact with the application.

Types of Irrigation Systems:

ROTAM METHOMYL 29LV may be applied through overhead sprinkler irrigation systems for control of various pests. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens. Do not apply ROTAM METHOMYL 29LV through any other type of irrigation systems, except those allowed by instructions provided in a supplemental, SLN, or this product label.

General Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of ROTAM METHOMYL 29LV in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of ROTAM METHOMYL 29LV into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of ROTAM METHOMYL 29LV. Once in solution, no further agitation is required. Injection solution should not be stored overnight. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic (pH5-7).

Injection into Chemigation Systems

Inject the proper amount of the ROTAM METHOMYL 29LV solution into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

Uniform Water Distribution

The irrigation system used for application of ROTAM METHOMYL 29LV must provide for uniform distribution of ROTAM METHOMYL 29LV treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

Equipment calibration

Calibrate the irrigation system and injector before applying ROTAM METHOMYL 29LV. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for cleaners and repairers of application equipment when making adjustments or repairs on the chemigation system when ROTAM METHOMYL 29LV is in the irrigation water.

Required System Safety Devices

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Posting of Areas to be Treated

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes, or any other public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in ENGLISH. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color, which sharply contrasts with their immediate background. At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol shall be the words "PESTICIDE IN IRRIGATED WATER".

Posting for chemigation does not replace other posting and reentry requirements for farm worker safety.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. Apply ROTAM METHOMYL 29LV in 0.1 to 0.2 inches of water per acre. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system. End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

Nozzles in the immediate area of control panels, chemical supply tanks, wellheads and system safety devices must be plugged to prevent contamination of these areas.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity**, and **Temperature Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types and the lowest drift.
- **Boom Length** - For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift

without reducing swath width.

- **Application Height** - Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- **Swath Adjustment** - When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downward edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **AVOID GUSTY OR WINDLESS CONDITIONS.**

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind.

However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. These sprayers are not suitable for applying herbicides. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift;

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

Crops	Insects	Rate ROTAM METHOMYL 29LV Pts. Per Acre	Last Application -Days To Harvest	REI
Alfalfa	Pea Aphid Lygus Bugs Blotch Leafminer Aphids Egyptian Alfalfa Weevil Larvae Loopers Beet Armyworm Armyworm Alfalfa Caterpillar Fall Armyworm Western Yellowstriped Armyworm Yellowstriped Armyworm	1 1/2 – 3	7 *	48 hrs
	Alfalfa Weevil Larvae	3		
	Variegated Cutworm	3/4 - 3		
	Do not apply to dormant or semi-dormant alfalfa when minimum. daily temp. is 50° F, or lower.			

	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.			
Anise (Fennel)	Cabbage Looper	3	7	48 hrs
	Beet Armyworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Apple Ground application only	Apple Aphid Rosy Apple Aphid Tufted Apple Budmoth Green Fruitworm Tarnished Plant Bug	1 1/2 - 3 *	14	72 hrs
	Codling Moth (10-12 day spray intervals)			
	Leafrollers (Fruit-tree, Obliquebanded, Redbanded, Variegated) Lesser Appleworm White Apple Leafhopper Tentiform Leafminer Cutworm	3 *		
	Do not use on Early Macintosh & Wealthy varieties Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop; minimum interval between treatments is 7 days. * Apply in a minimum of 50 gallons of water per acre.			
Asparagus	Beet Armyworm, Western Yellowstriped Armyworm Asparagus Beetle Spotted Asparagus Beetle White Cutworm Redbacked Cutworm	1 1/2 - 3	1	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Avocado	Western Avocado Leafroller Omnivorous Looper	1 1/2 - 3	1	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Barley	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.			

<p>Do not make more than 4 applications per crop.</p> <p>Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p>*Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.</p> <p>**Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).</p>				
Beans (Succulent) Including: Kidney Lima Mung Navy Pinto Snap Wax Broad Fava Asparagus Blackeyed peas Cowpeas Chick peas Garbanzo beans Sweet lupine White sweet lupine White lupine Grain lupine	Leafhopper Mexican Bean Beetle	3/4 – 3	Succulent Beans - 3/4 - 1 1/2 pts. – 1, over 1 1/2 pts. – 3; 3 - Vines 7 - Hay	48 hrs
	Fall Armyworm Variegated Cutworm	1 1/2		
	Beet Armyworm Corn Earworm Saltmarsh Caterpillar, Yellowstriped Armyworm Western Yellowstriped Armyworm Lygus Bugs Thrips Aphids Loopers*	1 1/2 - 3		
	European Corn Borer (Ovicide & Larvicide)-- Initiate when moth flights first appear and-continue preventive treatments at 3-4 day intervals To control eggs and larvae			
	Spotted Cucumber Beetle	3/4 – 1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Do not use for Loopers in AL & GA.			
	Beans (Dry) (Same as Succulent Beans)	(Same as Succulent Beans)	(Same as Succulent Beans)	
Do not apply more than 15 pints of ROTAM METHOMYL 29LV/acre /crop. Do not make more than 10 applications per crop. Do not use for Loopers in AL & GA. *Do not apply within 14 days of cutting.				
Beets (Table)	Imported Cabbageworm	3/4 – 3	0 - roots 10 -tops	48 hrs
	Beet Armyworm Cabbage Looper Diamondback Moth	1 1/2 - 3		

	Cucumber Beetle Variegated Cutworm	1 1/2		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Bermudagrass pasture	Fall Armyworm Armyworm Striped Grass Looper	3/4 - 3	7 - Forage * 3 - Dehydrated Hay **	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * Do not apply within 7 days of feeding forage or allowing livestock to graze. ** Do not apply within 3 days of cutting for hay.			
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1 1/2	3	48 hrs
	Cranberry Fruitworm* Cherry Fruitworm*	1 1/2 - 3		
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	3		
	Blueberry Maggot	3/4-1 1/2		
	Do not apply during bloom. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. * For ground use only.			
Broccoli	Loopers Diamondback Moth	1 1/2 - 3**	3	48 hrs
	Imported Cabbageworm	3/4 - 3**		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV/acre/crop Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Brussels Sprouts	Loopers Imported Cabbageworm, Diamondback Moth	1 1/2 - 3 **	3	48 hrs
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Cabbage	Loopers * Diamondback Moth Fall Armyworm	1 1/2 - 3 **	1	48 hrs
	Imported Cabbageworm	3/4 - 3 **		
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. * Do not use for Loopers in AL & GA.			
Carrot	Beet Armyworm Armyworms Aster Leafhopper	1 1/2 - 3	1	48 hrs

	Variegated Cutworm	3/4 – 1 1/2		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Cauliflower	Imported Cabbageworm	3/4 – 3 **	3	48 hrs
	Loopers Diamondback Moth	1 1/2 – 3 **		
	Variegated Cutworm	1 1/2 **		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Celery	Beet Armyworm Aster Leafhopper	1 1/2 – 3	7	48 hrs
	Loopers	3		
	Variegated Cutworm	1 1/2		
	Armyworms	3/4 - 3		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Chicory	Beet Armyworm Variegated Cutworm Leafhoppers	1 1/2 - 3	80	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Chinese Cabbage	Loopers Beet Armyworm	1 1/2 - 3*	10	48 hrs
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. * Minimum of 25 gallons water per acre by ground or 5 gallons by air.			
Collards (Fresh market only)	Diamondback Moth Variegated Cutworm	1 1/2	10	48 hrs
	Imported Cabbageworm Beet Armyworm Loopers*	1 1/2 - 3		
	Do not apply when temp. is less than 50° F Do not apply when crop is less than 10" tall. Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Loopers in AL & GA.			
Corn (Field, Popcorn & Seed)	Earworm – (Ovicide/Larvicide) Armyworm Fall Armyworm European Corn Borer Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2	21 - Ears 3 - Forage* 21 - Stover*	48 hrs
	Variegated Cutworm, Beet Armyworm	1 1/2		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop.			

		Do not make more than 10 applications per crop. *Corn forage is green actively growing plants that are harvested with the ears intact. The plants can be fed directly to animals or used to make silage. Corn stover are the parts of the plant that remain after removal of the grain at full plant maturity. These remaining stalks and leaves can be fed as roughage to animals.		
Corn (Sweet) Cotton - All US	Earworm—Whorl as needed	1 – 1 1/2	0 -Ears 3 - Forage 21 - Stover	48 hrs
	Fall Armyworm Armyworm Earworm, (Ovicide/Larvicide) European Corn Borer -Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 – 1 1/2		
	Variegated Cutworm Beet Armyworm	1 1/2		
	Certain hybrid varieties of sweet corn are susceptible to methomyl injury. Treat a small area to determine crop safety before full scale spraying. Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 28 applications per crop; minimum interval between treatments is 1 day.			
	Ovicide/Larvicide - Bollworm Tobacco Budworm -Initiate schedule when significant numbers of eggs are present Continue at 3 to 5-day intervals while eggs are present and larval control is adequate. If significant larvae survive, use higher rates below. Lygus Bugs/Plant Bugs (adults and nymphs) Start treatment on low level Population for suppression.	2/5 - 3/4 (see Insect Predator Section)	15	72 hrs
	Cotton Leafworm	3/4 – 1 1/2		
	Cotton Fleahopper (as needed)	2/5 – 3/4		
	Aphids, Thrips	3/4		
East of Rockies only	(Early Season) Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adults and nymphs) Use as occasional spray in regular schedule but not more often than every 10 days.	1 1/2		
	(Late Season)	1 1/2 – 2 1/4		

	Bollworm Tobacco Budworm Beet Armyworm Cotton Leafperforator Fall Armyworm Lygus Bugs/Plant Bugs (adult and nymphs) Up to 3 applications at 3-5 day intervals after desired boll load set on plants.			
Texas	Cotton Aphid	3/4 – 2		
West of Rockies only	Larvicide for worms: Bollworm Fall Armyworm Tobacco Budworm Lygus Bugs Beet Armyworm	1 1/2 – 2 1/4		
	Cotton Leafperforator	1 – 2 1/4		
	For applications West of the Rockies, make applications on 3-5 day intervals after desired boll load set on plants. For all applications made to cotton in the United States: Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not graze or feed. Use may redden cotton. If excessive, stop or alternate with other insecticides.			
Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pt. -- 1 Over 1 1/2 pt.- 3	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications /crop.			
Eggplant	Green Peach Aphid	3/4 – 3	5	48 hrs
	Tomato Pinworm (Ground Application Only) Beet Armyworm Corn Earworm	1 1/2 - 3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop.			
Endive, Escarole	Beet Armyworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Garlic	Beet Armyworm	1 1/2**	7	48 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. ** Add a wetting agent to improve coverage.			

Grapefruit CA, AZ & HI only	Thrips Fruitree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Grapes East of Rockies only	Grape Berry Moth (apply pre- & post-bloom & repeat at 10-14 day intervals or as needed) Leafhoppers	1 1/2 - 3	1 - Fresh & Raisin 14 - Wine Grapes	7 days
All U.S.	Omnivorous Leafroller Grape Leafroller Orange Tortrix			
West of Rockies only	Saltmarsh Caterpillar Leafhoppers*			
	Climbing Cutworm (Treat infestation and repeat at 7-14 day intervals as needed)	3		
CA only	Grape Leaf Skeletonizer*	1 1/2 - 3		
	Thrips	1 1/2 - 3		
For all applications made to grapes in the United States: Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop. * Leafhoppers & Grape Leaf Skeletonizer (Ground Application Only).				
Horseradish (Ground application Only)	Aphids Thrips	1 1/2	65	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Leafy Green Vegetables: Beet (tops) Dandelions, Kale, Mustard Greens, Greens, Parsley, Swiss Chard, Turnip Greens	Beet Armyworm Cabbage Looper* Diamondback Moth Imported Cabbageworm	1 1/2 - 3	10	48 hrs
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. * Do not use for Cabbage Loopers in AL & GA.			
Lemon CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Lentils	Western Yellowstriped Armyworm	1 1/2 - 3	21	48 hrs
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			

Lettuce (Head and Leaf varieties)	Alfalfa Looper	3/4 - 3	3/4-1 1/2 pt. – 7 over 1 1/2 pts. – 10	48 hrs
	Thrips Aphids Beet Armyworm Cabbage Looper Corn Earworm Aster Leafhopper	1 1/2 - 3		
	Variegated Cutworm	1 1/2		
	Lettuce (head varieties) Do not apply more than 24 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 15 applications per crop; minimum interval between treatments is 2 days. Lettuce (leaf varieties) Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 2 days.			
Melons Including: Canteloupe Casaba Santa Claus melon Crenshaw melon Honeydew melon Honey balls Persian melon Golden Pershaw melon Mango melon Pineapple melon Snake melon Watermelon	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 - 3	1 1/2 pts. – 1 day over 1 1/2 pts. – 3 days	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop.			
Mint (Peppermint, Spearmint)	Variegated Cutworm Alfalfa Looper	3	14	48 hrs
	Flea Beetles	2 1/4 - 3		
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Nectarine CA & AZ only	Thrips	1 1/2 – 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			
Oats	Armyworms Cereal Leaf Beetle* Aphids**	3/4 – 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.			

<p>Do not make more than 4 applications per crop.</p> <p>Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p>*Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.</p> <p>**Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).</p>				
Onions (Green & Dry Bulb)	Beet Armyworm	1 1/2 - 3**	7 - Green & Dry Bulb Onions	48 hrs
	Thrips* Variegated Cutworm Black Cutworm	3**		
	<p>Onions, green Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum interval between treatments is 5 days.</p> <p>Onions, dry bulb Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop; minimum treatment interval between treatments is 5 days.</p> <p>*Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control thrips. Begin applications before thrips populations reach 3-5 thrips per plant. For best results, use the highest rate of ROTAM METHOMYL 29LV and a wetting agent. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p>** Add a wetting agent to improve coverage.</p>			
Oranges CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Fruitree Leafroller Beet Armyworm Citrus Cutworm	1 1/2 - 3	1	72 hrs
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.			
Peaches	Catfacing Insects (Plant Bugs and Stink Bugs) - begin at petal fall and Continue in cover sprays at 7 to 10-day intervals Oriental Fruit Moth* -begin at petal fall; use trapping devices and frequent field inspection to determine need for treatment. Continue treatment in cover sprays and alternate with residual-	3 pt (or 3/4 pt per 100 gal up to 400 gal per acre)	4	4 days

	type insecticides registered for this use. Green Peach Aphid			
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 6 applications per crop. * Oriental Fruit Moth (Ground Application Only).			
Peanuts	Corn Earworm*	3/4 – 3	21	48 hrs
	Potato Leafhopper			
	Fall Armyworm			
	Beet Armyworm	1 1/4 - 3		
	Green Cloverworm	1 1/2 – 3		
	Velvetbean Caterpillar			
	Cabbage Looper			
	Soybean Looper **			
	Thrips			
	Granulate Cutworm			
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop. Do not feed treated vines. * ROTAM METHOMYL 29LV has ovicidal and larvicidal control on corn earworm. **Soybean Looper is difficult to control. Do not apply to worms greater than 1/2" long. Use higher rate for severe infestations.			
Pears Northeast only	Green Fruitworm	1 1/2 - 3*	7	48 hrs
	Oblique banded Leafroller			
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Apply in a minimum of 50 gallons of water per acre.			
Peas (succulent) Including: Pigeon peas Chick peas Garbanzo beans Dwarf peas Garden peas Green peas English Peas Field peas Edible pod peas	Alfalfa Looper	1 1/2 - 3	1 - Peas 5 - Forage 14 - Hay	48 hrs
	Cabbage Looper*			
	Pea Aphid			
	Beet Armyworm			
	Saltmarsh Caterpillar			
	Variegated Cutworm			
	Alfalfa Caterpillar	3/4 - 3		
	Armyworm			
	Green Cloverworm			
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop . Do not make more than 6 applications per crop; minimum interval between treatments is 3 days. * Do not use for Cabbage Loopers in AL & GA.			
Pecans Southeast only	Aphids	1 1/2 - 3	30	48 hrs
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 7 applications per crop.			
Peppers Including: Bell Hot Pimentos Sweet	Loopers	1 1/2 – 3	3	48 hrs
	Beet Armyworm			
	Green Peach Aphid			
	Armyworm			
	Fall Armyworm			
	Variegated Cutworm	3/4 – 1 1/2		
	European Corn Borer	3		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop.			

	Do not make more than 10 applications per crop.			
Pomegranates	Omnivorous Leafroller	3	14	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop.			
Potato	Tuberworm* Loopers Aphids Beet Armyworm Leafhoppers Fall Armyworm	1 1/2 - 3	6	48 hrs
	Variegated Cutworm Flea Beetles	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL2 9LV per acre per crop. Do not make more than 10 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Repeat applications of ROTAM METHOMYL 29LV on a 5-7 day schedule, or longer as needed, to control tuber worm populations. An application schedule of effective insecticides with different modes of action may be needed to keep foliar feeding larval populations as low as possible prior to harvest to reduce the risk of larval damage to the tubers. Failure to adequately control tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage.			
Rye	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California. **Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).			
Sorghum Including: Sudangrass (except Sweet Sorghum)	Sorghum Webworm	1 1/2*	14**	48 hrs
	Sorghum Midge --Apply when 50% bloom and 3-5 days later if needed. Fall Armyworm (Budworm) Beet Armyworm Corn Earworm Armyworm	3/4 - 1 1/2*		

Do not apply more than 3 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 2 applications per crop. * Minimum of 10 gallons per acre by ground or 2 gallons per acre by air. ** Do not apply within 14 days of feeding forage or cutting for hay.				
Soybeans	Green Cloverworm Velvetbean Caterpillar Mexican Bean Beetle Corn Earworm - Light to moderate Infestations	2/5 - 3/4 (see Insect Predator section)	14 - Soybeans 3 - Forage 12 - Hay	48 hrs
	Corn Earworm - Moderate to severe infestations	3/4 - 1 1/2		
	Soybean Aphid	1/2 - 1		
	Beet Armyworm Salt Marsh Caterpillar Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper - Light to moderate infestations	3/4 - 1		
	Silver Spotted Skipper - Moderate to severe infestations	1 - 1 1/2		
	Do not apply more than 4.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 3 applications per crop.			
Spinach	Alfalfa Looper Cabbage Looper Beet Armyworm Fall Armyworm	1 1/2 - 3	7	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply when minimum daily temp. is 32° F, or lower. Do not apply to seedlings less than 3" diameter. Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 8 applications per crop.			
Sugar Beet	Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstripe Armyworm*	3/4 - 3	30 - Tops 21- Roots	48 hrs
	Variegated Cutworm	1 1/2		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 10 applications per crop. *Chemigation - ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation to control beet armyworm, aphids and western yellowstriped armyworm. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.			
Summer Squash* Including:	Looper Tobacco Budworm	1 1/2 - 3	1 1/2 pt. -- 1 day over 1 1/2 pt.-- 3 days	48 hrs

Crookneck squash Straightneck squash Scallop squash Vegetable marrow Spaghetti squash Hyotan Cucuzza Hechima Chinese okra Bitter melon Balsam pear Balsam apple Chinese Cucumber	Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm			
Do not apply more than 18 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 12 applications per crop. * Fruit of the Gourd (Cucurbitaceae) family that are consumed when immature, 100% of the fruit is edible cooked or raw, once picked cannot be stored, has a soft rind which is easily penetrated, and if seeds were harvested they would not germinate.				
Tangelo, Tangerine CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix, Beet Armyworm	1 1/2 - 3	1	72 hrs
Do not apply more than 9 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop.				
Tobacco (Except shade)	Flea Beetle Hornworm	3/4 - 1 1/2	5 - Flue cured 14 - Air or fire cured	48 hrs
	Loopers Aphids Tobacco Budworm Fall Armyworm	1 1/2		
Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.				
Tomato (Including Tomatillos*)	Tomato Fruitworm Aphids Hornworm Loopers Beet Armyworm Southern Armyworm Pinworm Armyworm Fall Armyworm Variegated Cutworm	1 1/2 - 3	1	48 hrs
Do not apply more than 21 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 16 applications per crop. * For tomatillos do not apply more than 15 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 5 applications per crop.				
Turf (For use on sod farms only)	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	3 (1.1 fl. ozs. per 1000 sq. ft.)		48 hrs
Do not apply more than 12 pints of ROTAM METHOMYL 29LV per acre per crop. Do not make more than 4 applications per crop. Do not graze or feed.				
Wheat	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2	7	48 hrs

Do not apply more than 6 pints of ROTAM METHOMYL 29LV per acre per crop.

Do not make more than 4 applications per crop.

Chemigation: ROTAM METHOMYL 29LV may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.

*Cereal leaf beetle: ROTAM METHOMYL 29LV can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.

**Aphids: For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (<10 adults per stem).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in a tightly closed container in a cool, dry place.

Pesticide Disposal: Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal (Nonrefillable container 5 gallons or less): Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

Residue Removal: Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container: Refill this container with Rotam Methomyl 29LV containing methomyl only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Use standard industry practices for cleaning refillable containers.

Spills: For minor spills, leaks, etc., follow precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Rotam Agrochemical Company Limited or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Rotam Agrochemical Company Limited and Seller harmless for any claims relating to such factors.

Rotam Agrochemical Company Limited warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Rotam Agrochemical Company Limited, and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW ROTAM LTD MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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Rotam Agrochemical Company Limited and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Rotam Agrochemical Company Limited.

Manufactured by:
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Registered: [TBA]

[Back Page of Booklet remains on the container when booklet is removed]

RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

GROUP 1A INSECTICIDE

Rotam Methomyl 29LV Insecticide

Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

<u>Active Ingredient</u>	<u>By Weight</u>
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Methomyl

(S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate)	29%
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<u>Inert Ingredients</u>	71%
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TOTAL	100%
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EPA Reg. No. 83100-TBA

EPA Est. No.: TBA

Refer to inside label booklet for Directions for Use.

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

(N-Methyl Carbamate insecticide)

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. FATAL IF SWALLOWED. CONTAINS METHANOL; MAY CAUSE BLINDNESS. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.

Do not get in eyes or on clothing. Wear protective eyewear. Harmful if inhaled or absorbed through skin. Avoid contact with skin or breathing spray mist. Wash hands thoroughly with soap and water after handling.

POISONING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on the ROTAM METHOMYL 29LV label and seek medical attention at once.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in a tightly closed container in a cool, dry place.

Pesticide Disposal: Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal (Nonrefillable container 5 gallons or less): Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling, if available.

Residue Removal: Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container: Refill this container with Rotam Methomyl 29LV containing methomyl only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Use standard industry practices for cleaning refillable containers.

Spills: For minor spills, leaks, etc., follow precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.

Registered:

Manufactured by:
Rotam Agrochemical Company Ltd.
7/F Cheung Tat Centre
18 Cheung Lee Street
Chai Wan, Hong Kong
1-866-927-6826

Net Contents
Gallons

ISB'S Front-end PRIA Completeness Screen

Draft 3; 10/25/07

EPA Receipt Date: <u>9/14/10</u>		EPA Reg. Number: <u>83100-ET</u>		
	Check List Item	Yes	No	N/A
1	Has the PRIA Fee been Paid ; is a copy of the check or Pay.gov receipt included in the Submission Package?	✓		
2	Is an Application Form (EPA Form 8570-1) Included in the Submission Package, is it completely filled out and signed including package type?	✓		
3	Is a Confidential Statement of Formula (EPA Form 8570-29) Included in the Submission Package, is it completely filled out and signed (boxes 1-21)?	✓		
4	Is a Formulator's Exemption Statement (EPA Form 8570-27) Included in the Submission Package?	✓		
5	Is a Certification with Respect to Citation of Data (EPA Form 8570-34) Included in the Submission Package?	✓		
6	Is a Data Matrix (EPA Form 8570-35) Included in the Submission Package?	✓		
7	Is a Label Included in the Submission Package?	✓		
8	Are Data Included in the Submission Package?	✓		
9	Is the Submission an Amendment?		✓	

Confidential Statement of Formula May be Entitled to Confidential Treatment